



Metcalf Energy Center

May 14, 2003

Mr. Steve Munro, Compliance Project Manager
California Energy Commission
1516 9th Street, MS 2000
Sacramento, CA 95814

Subject: Metcalf Energy Center 99-AFC-3
Monthly Compliance Report #18, April 1 – April 30, 2003

Dear Mr. Munro:

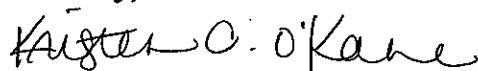
In accordance with the CEC Commission Decision, enclosed please find a Monthly Compliance Report (Report) and Compliance Matrix for the Metcalf Energy Center. This report is for the period beginning April 1 – April 30, 2003.

The Report lists those Conditions of Certification that require submittal with the Monthly Compliance Report as stated in the Commission Decision. These submittals are listed in the Report and are attached.

A copy of this report is also being submitted to the library nearest the project site, Santa Teresa Branch Library, as required in the Commission Decision.

If you have any questions please call me at (408) 463-6001.

Sincerely,



Kristen O'Kane
Environmental Compliance Manager
METCALF ENERGY CENTER

Enclosures

cc: Ken Abreu, Calpine
Nick LaPorte, Calpine
Sam McIntosh, Calpine
Document Control, Calpine
Don Wimberly, Willdan

**Metcalf Energy Center
99-AFC-2**

**Monthly Compliance Report #19
April 1 – April 30, 2003**

1. Project construction status

Pile Driving: Foundation Constructors completed the installation of pipe piles within the power block area, including all major foundations. Pile driving began at the tank farm area in the southwest corner of the power plant.

Pile Concrete: Foundation Constructors has completed rebar and concrete installation in the west pipe rack, the interconnecting pipe rack, and combustion turbine #1. Approximately 30% of rebar and concrete has been placed in the pile for HRSG #1.

Circulation Water Pipe: The circulation water pipe trench within the sheet piled area was excavated. Upon completion, the geotechnical engineer identified the exposed subsurface did not meet density and stiffness requirements. The geotechnical engineer developed a recommendation in conjunction with the design engineer. This recommendation will be implemented by Miller Thompson and Top Grade Construction.

Excavation: Top Grade Construction completed excavation of the sheet piled area for the circulation water pipe as described above. The material from the circulation water pipe excavation was used to construct a temporary area to the west of the cooling tower for the cooling tower erector. Top Grade also completed excavation for the service water and demineralized water storage tanks, the dead end structure and the architectural screen wall foundations.

Material Preservation: No major equipment components were received during the month of April. Equipment continues to be preserved per the manufacturer's recommendations.

Engineering: The engineering progress is approximately 89.4% complete. Engineering continues to support construction and subcontract packaging needs.

1) The following documents were issued by Burns and Roe Enterprises, Inc.:

- Issued the following documents to CBO for approval:
 - Design package for Electrical Control Building
 - Drawing C070 for Temporary Construction Facilities
 - Design package for Demineralized and Fire Water Storage Tanks-Pile Foundation
 - Drawing package for Steam Turbine Platform Steel
 - Drawing and Calculation for Ammonia Storage Tank Foundation

- Issued the following documents for review:
 - Interface with Switchyard Elementary Diagrams
 - Supplements to Siemens CTG Cable Schedule and Raceway Scheduled
- Issued the following for construction/use:
 - Specifications for:
 1. Compress Air System

2) Engineering Tasks:

- Continued to support construction
- Continued to develop PDS 3D model:
 - a) Underground piping
 - b) Underground Electrical system
 - c) Structural steel
 - d) Equipment
 - e) Foundation
- Continued to review vendor documents
 - a) Water Treatment System
 - b) Cooling Tower
 - c) HRSG
 - d) Combustion Turbine Generator
 - e) Steam Turbine Generator
 - f) Condenser
 - g) PDCs
 - h) Iso-Phase Bus
 - i) BOP equipment
- Continued to update P&IDs
- Continued development of stress analysis
- Continued development of line, piping specialty and valve lists
- Continued development of System Description
- Continued to develop I/O list
- Continued to develop logic diagrams
- Continued to develop above ground conduit design
- Continued to develop equipment foundation design

3) Major Equipment

- The following equipment are in bid process:
 - a) Fire pump system
 - b) Shop fabricated tanks
 - c) CEMS
 - d) Misc. Horizontal Pumps
 - e) Closed Cooling Water Heat Exchangers

Activities planned for next month

Pile Driving: Foundation Constructors should complete installation of the remaining piled foundations including the service water tank, demineralized water

storage tank, the gas compressors, the ammonia storage tank and fire water pump house.

Pile Concrete: Foundation Constructors will continue to place rebar and concrete in piles in the entire power block area including HRSG #1, the architectural screen wall, dead end structure and the boiler feed water pump piles.

Circulation Water Pipe: The subsurface issues that exist will be corrected with localized areas of over-excavation of soft material and a 6" minimum thick concrete mat that will be installed in the bottom of the excavation. Miller Thompson will then set pipe in the excavation. All of the pipe should be set by the end of the month with backfilling occurring upon completion.

Engineering:

- **General**
 - Continue to review vendor drawings for CTGs, STG, Condenser, HRSGs, Cooling Tower, major pumps, water treatment system, PDC, Iso-Phase Bus and other equipment
 - Continue to support construction
 - Support Switchyard subcontractor's design development
- **Mechanical**
 - Complete Specialties Specification for bid
 - Continue development stress analysis (steam drains)
 - Continue development line/valve/pipe specialty lists
 - Continue development of 3D equipment and piping models
 - Continue development of equipment list
 - Continue development of System Descriptions
 - Continue development of Isometrics (FW, Fuel Gas, Lube Oil, CCW and Service Water)
 - Continue vendor document review
- **Civil /Structural/Architectural**
 - Continue update 3D Models
 - Work on Ammonia Storage area tank foundation
 - Finalize pile design package for Gas Compressor building and equipment
 - Provide engineering support on pile driving activities and the Circulating Piping installation
 - Work on site finalization Civil package
 - Work on Iso-phase bus duct support foundations
- **Electrical:**
 - Continue with switchyard coordination
 - Issue final underground conduit/duct bank drawings

- Issue cable schedule, connection diagrams and above ground conduit drawings for:
 - o STG
 - Finalize BOP electrical room layout for construction, based on vendor equipment sizes
 - Finalize and issue tray drawings
 - Design and issue STG pedestal embedded conduit
 - Issue Hazardous Class drawings, Rev. 0
 - Proceed with work on protective relay coordination
 - Review PDC 5kV switchgear and MCC vendor drawings
- **Instrumentation:**
 - Continue to review and comment on P&IDs
 - Continue data inputs to the major lists
 - Continue preparation of logics
 - Continue to review vendor drawings
 - Continue development of instrument specifications:
 - o Gauges and meters
 - Issue DCS I/O list, 85% version
 - Issue DCS I/O list, 100% version
 - Address and resolve all control valve issues and issue Specification 15106 for purchase

MEC Litigation Update

1. The California Supreme Court (Decision 2-28-02)
 - a. The Supreme Court denied STCAG appeal on February 28, 2002.
 - b. The denial is final and non-appealable in California courts.
2. Sacramento Superior Court (Decision 2-22-02)
 - a. MEC's Demurrer was granted on 2-22-02, dismissing the suit for lack of subject matter jurisdiction.
 - i. STCAG had indicated in the press that it intends to appeal this dismissal for lack of subject matter jurisdiction.
 - ii. Proposed Order Sustaining Demurrer was sent to the Judge for signature on March 14, 2002. The CEC sent a revised order and notice of judgment the last week of April.
 - b. Court of Appeals Action:
 - i. We received a notice of intent to file an appeal from STCAG. STCAG will be appealing the Demurrer to the Third District Court of Appeals, dated May 8, 2002. By letter dated June 6, 2002, the office of the Clerk for the Third Appellate District notified STCAG that the reporter's transcript had been filed. STCAG's brief and appendix were originally due by July 5, 2002. However, STCAG was granted an extension. STCAG filed their Opening Brief on

- August 23, 2002. MEC's reply brief is due September 26, 2002. The brief was filed.
- ii. STCAG filed its response to MEC's brief on November 4, 2002. Awaiting court letter regarding possible oral argument hearing date.
 - iii. Oral argument was January 27, 2003.
 - iv. Decision was filed on February 5, 2003 affirming judgment of dismissal.
 - v. Petitioner filed Petition for Rehearing on February 24, 2003.
 - vi. Respondents filed answers on February 28, 2003.
 - vii. Petition for rehearing was summarily denied on March 5, 2003.
- c. California Supreme Court
- i. STCAG filed a petition with the California Supreme Court on or about March 20, 2003
 - ii. MEC answered on Monday, April 7th.
 - iii. Volker was required to file any reply to our/CEC's answers within 10 days of such answers. We filed 4/7 and CEC filed 4/8. Using 4/8 as the trigger date, Volker should have filed his reply last Friday, 4/18.
 - iv. Awaiting Court ruling.
3. U.S. Ninth Circuit Court of Appeals (Decision 11-21-02)
- a. On August 10, 2001, the U.S. EPA's Environmental Appeals Board (EAB) rejected petitions filed by STCAG and CARE that had contested the MEC Prevention of Signification Deterioration (PSD) permit. The STCAG subsequently appealed this EAB decision with the U.S. Court of Appeals for the Ninth Circuit in October 2001.
 - b. On November 21, 2002, the Ninth Circuit denied STCAG's petition on all grounds.
 - c. In January 2003 STCAG filed two motions seeking extensions of the deadline for filing a petition for rehearing of the Ninth Circuit's November 2002 order dismissing STCAG's appeal. Calpine, the CEC and BAAQMD all filed papers opposing the STCAG's motions. STCAG subsequently filed its petition for rehearing, which sought rehearing only by the original 3-judge panel that issued the November 2002 order.
 - d. In response to STCAG's motions, the Ninth Circuit during February 2003 extended the deadline for filing STCAG's petition for rehearing and accepted this petition for filing purposes only.
 - e. On March 6, 2003, the Ninth Circuit denied STCAG's petition for rehearing. All appeals before the Ninth Circuit have now been exhausted. Any further appeal can be pursued only by filing a petition for writ of certiorari with the U.S. Supreme Court no later than June 4, 2003.
4. STCAG lawsuit against the City: recycled water line (Pending)

- a. STCAG has sued to stop the City's construction of its preferred waterline route.
 - b. Hearing was held 6/20/02. Court rendered a decision in favor of City and Calpine.
 - c. STCAG appeal brief was filed in December. Calpine, the City of San Jose and the Santa Clara Valley Water District all filed responses. The CEC filed an amicus brief. STCAG has now filed a reply. Once a brief is filed, the Court can set the hearing at any time thereafter.
5. STCAG lawsuit against BAAQMD: San Francisco Superior Court (Pending)
- a. STCAG challenged the Bay Area Air Quality Management District (BAAQMD) issuance of the PSD permit.
 - b. The case was filed on 9/9/02 and served on 9/17/02.
 - c. Calpine and the BAAQMD are filing Demurrsers (motions to dismiss) on or about October 17, 2002.
 - d. Hearing dates will be set thereafter.
 - e. BAAQMD late field its request for Demurrer. The parties had a telephonic meet and confer to set dates for filing of STCAG's first amended complaint, which was filed on November 8, 2002. Awaiting court order regarding leave to amend. Expect CEC, BAAQMD, and Calpine Demurrer to first amended complaint to be filed on or about 11-22-02.
 - f. Demurrsers were filed by Calpine, the CEC and the BAAQMD on November 26, 2002.
 - g. December 19, 2002 hearing continued to January 2, 2003.
 - h. January 2, 2003 hearing: Superior Court issues oral order granting MEC's Demurrer without leave to amend. Order and notice of judgment in favor of MEC, the BAAQMD, and the CEC currently being drafted by BAAQMD.
 - i. The Proposed Order was sent to the Judge to be signed on February 19, 2003.
 - j. The Order was signed by the Judge on February 27, 2003 and filed with court on March 3, 2003.
 - k. Possible Appeal to the 1st Dist. Ct. of Appeals
 - i. Notice of Appeal is due May 12th.

2. Documents required to be submitted with Monthly Compliance Report

CONDITION	SUMMARY
AQ-48	Summary of monthly activities related to the Fugitive Dust Control Plan is attached.
AQ-52	4 ultra low sulfur fuel receipts attached.
AQ-52	Off-road diesel fired equipment usage lists attached.
AQ-52	Copy of Miller-Thompson's contract language attached.
BIO-2	Summary of Designated Biologist's written records is

	attached.
BIO-6	WEAT training presented to 31 on site personnel.
CUL-5	WEAT training presented to 31 on site personnel.
CUL-7	Weekly construction schedules are attached.
CUL-8	Weekly summary reports attached.
PAL-3	WEAT training presented to 31 on site personnel.
PAL-4	A summary report is attached.
LAND-1	There is no update on trail developments.
SOCIO-1	List of planned procurement of materials and hiring outside the local regional area is attached.
SOIL&WATER-1	Gallons of well water used during the month of April = 17,280.
GEN-2	Updated drawing list available upon request.
GEN-3	No payments made to the CBO in April.
TRANS-1	No oversize/overweight permits were obtained in April.

3. Compliance matrix

A Compliance Matrix is attached.

**4. Conditions that have been satisfied during the reporting period
(CBO submittals and approvals can be found in #12)**

None

5. Submittal deadlines not met

There are no outstanding submittals.

6. Approved COC changes

- A request for amendment was submitted 11/30/01 and approved 12/21/01. The amendment allows for an additional 14 acres of laydown area south of Blanchard Road and west of the railroad tracks.
- An amendment was approved on 8/28/02 to allow the originally certified 10.2-mile recycled water line to be replaced with a 1000-foot lateral interconnection line of the same capacity.

7. Filings or permits with other agencies

- Submitted signed copy of Department of Fish and Game Agreement Notification Number 1600-2003-0002-3 for horizontal directional drilling under Coyote Creek to install the gas pipeline.
- Received Notice of Intent from State Water Resources Control Board for construction of linear.

8. Projection of project compliance activities for next two months (May - June)

CONDITION	SUMMARY
AQ-48	Will follow dust mitigation measures.
AQ-49 and 50	Dust will be monitored and activities recorded.
CUL-5	Training will be provided as needed.

CUL-7	Will submit weekly schedule to resource specialists.
CUL-8	Cultural specialist will perform required duties when necessary.
CUL-9	Cultural specialist will perform required duties when necessary.
BIO-2	Biologist will perform required duties when necessary.
BIO-6	Training will be provided as needed.
PAL-3	Training will be provided as needed.
PAL-4	Paleo specialist will perform required duties when necessary.
VIS-3	Will submit lighting plan to CPM and City of San Jose for review.
VIS-5	Will submit revised Monterey Road landscaping plan.
VIS-7	Will submit revised Coyote Ranch landscaping plan.
VIS-9	Will respond to CEC comments on architectural treatment.
VIS-10	Will respond to CEC comments on plume abatement plan.
LAND-3	Will provide notification that eastern and southwestern equipment boundaries have been marked and are ready for inspection.
GEN-4	Will submit final CBO approval of replacement of Resident Engineer.
GEN-5	Will submit CBO approvals for gas line engineers.
GEN-5	Will submit CBO approvals for switchyard engineers.

9. Additions to on-site compliance file

- Silt fence inspection logs
- Straw bale and wattle inspection logs
- Erosion and sediment control inspection logs
- Road cleaning logs
- Water truck (dust control) logs
- Biological monitor daily logs
- WEAT training logs
- Daily logs (fugitive dust and public road inspections)
- Ultra low sulfur fuel receipts

10. Requests to dispose of items in compliance file

None

11. Listing of complaints, notices of violations, official warnings, and citations

Public contact log attached.

12. List of facility design submittals, comments and approvals to CBO

Submittal matrix attached. CBO comments received in April are attached.

CBO Approvals:

- STRUC-1: Electrical Control Building, 1 calculation and 13 drawings.

CONDITION OF CERTIFICATION AQ-48
SUMMARY OF FUGITIVE DUST MITIGATION ACTIVITIES

METCALF ENERGY CENTER
MONTHLY COMPLIANCE REPORT #19

Summary of monthly activities related to the Fugitive Dust Control Plan:

The site was monitored daily for fugitive dust and for tracked material onto public roads. Logs are kept on file as part of the Storm Water Pollution Prevention Plan. The following activities were employed during the month of April:

- A water truck and operator are on site daily to moisten unpaved areas. The water truck was utilized 5 days in April. Light rain throughout the month provided additional dust suppression.
- The rock in the tire wash station at the site exit was cleaned.
- Hydroseeded areas are well-covered.
- A mechanical vacuum sweeper was on site the following days to remove dust from the access road, Blanchard Road and Monterey Road/Blanchard Road intersection.

4/3/03
4/4/03
4/11/03
4/14/03
4/15/03
4/16/03
4/17/03
4/18/03
4/22/03
4/24/03
4/25/0
4/28/03
4/29/03

CONDITION OF CERTIFICATION AQ-52
ULTRA-LOW SULFUR FUEL RECEIPTS

METCALF ENERGY CENTER
MONTHLY COMPLIANCE REPORT #19

Gulf Transportation

Flyers Transportation, LLC dba
 260 MICHELE COURT • SOUTH SAN FRANCISCO, CALIFORNIA 94080-6927
 (650) 873-1244

DELIVERY RECEIPT

FOUNDATION CONSTRUCTORS/CRDLK
 P.O. BOX-97
 OAKLEY, CA 94561

SHT
IO
P

FOUNDATION CONSTRUCTORS/CRDLK
 #1 BLANCHARD RD.
 SAN JOSE, CA 95101

CUSTOMER: 10970

SHIPPER: Nelly

ORIGIN: So, Linden

DRIVER'S COMMENTS

Fill up equipment

ORDER NUMBER	P.O. NUMBER	DATE	TRUCK	TRAILER#	LOC.	DRIVER	TERMS
264,171		04/04/03	40	-		TDSU	NET 15 DAYS
9 UL SULF DSL 350.00 FUEL OIL/COMBUSTIBLE LIQUID / NA1993 THIS DIESEL FUEL DOES NOT CONTAIN VISIBLE EVIDENCE OF DYE. UST Certificate on file Certificate # *** NONE *** DELIVER FRIDAY 04/04/03 CONTACT AT JOBSITE IS KEITH--CELL #925-382-7233 D.J. FOR HAZARDOUS MATERIAL EMERGENCY Spill, Leak, Fire, Exposure, or Accident CALL PERS DAY OR NIGHT 1-800-HAZARDOUS 633-8253							
1103006							

PAY THIS AMOUNT

TRIP MILES LOADED

343407

343376

31

BEFORE

AFTER

TRIP HOURS

TRIP	START	FINISH	START	FINISH	TIME
------	-------	--------	-------	--------	------

11:30 12:30

Tommy B. Clegg
 RECEIVED BY

TERMS AND CONDITIONS. NET DUE DATE. A FINANCE CHARGE OF 1.5% PER MONTH (ANNUAL PERCENTAGE RATE OF 18%) WILL BE CHARGED ON THE BALANCE REMAINING UNPAID AFTER THE DUE DATE INDICATED ABOVE. MINIMUM CHARGE OF \$1.00. CUSTOMER AGREES THAT IN THE EVENT A SUIT FOR ACTION OF THIS BILL OR ANY PORTION THEREOF IS INITIATED, CUSTOMER WILL PAY REASONABLE ATTORNEY'S FEES.

Gulf Transportation

60 MICHELE COURT • SOUTH SAN FRANCISCO, CALIFORNIA 94080-6927
(650) 873-1244

DELIVERY RECEIPT

FOUNDATION CONSTRUCTORS/CRDLK
P.O. BOX-97
OAKLEY, CA 94561

FOUNDATION CONSTRUCTORS/CRDLK
#1 BLANCHARD RD.
SAN JOSE, CA 95101

CUSTOMER: 10970

SHIPPER: Nella

ORIGIN: Lincoln

DRIVER'S COMMENTS

ORDER NUMBER	P.O. NUMBER	DATE	TRUCK	TRAILER#	LOC.	DRIVER	TERMS
264,908		04/14/03	5		LOU		NET 15 DAYS
PRODUCT DESCRIPTION OF ORDERED MATERIALS							
9 UL SULF DSL 350.00							
FUEL OIL/COMBUSTIBLE LIQUID / NA1993							
THIS DIESEL FUEL DOES NOT CONTAIN VISIBLE EVIDENCE OF DYE.							
UST Certificate on file							
Certificate # *** NONE ***							
MONDAY BEFORE 1PM #4143L 348 — 348 302							
FOR HAZARDOUS MATERIAL EMERGENCY Spill, Leak, Fire, Exposure, or Accident CALL PERS DAY OR NIGHT 1-800-HAZARDOUS 633-8253							

PAY THIS AMOUNT

TRIP MILES LOADED

331069

331023

46

BEFORE

AFTER

TRIP HOURS

TRIP	START	FINISH	START	FINISH	TIME
10:30	/	/	11:15	12:15	

Cal E. J. L. Co.

RECEIVED BY

Coast Oil Company, LLC

Marketers & Manufacturers
"since 1935"

4250 WILLIAMS ROAD • SAN JOSE, CA 95129-3344

FED I.D. NO: 770584351
RESALE NO. SR GH 97953643
FUEL RESALE NO. SG GH 78020404

OFFICE (408) 252-7720
OFFICE FAX (408) 255-5263
PLANT (408) 251-0811
ORDER DESK (408) 342-0222

915

SOLD TO: TOP GRADE CONSTRUCTION, INC.

50 CONTRACTORS STREET
LIVERMORE, CA 94550

(408) 287-2207

ORDERED BY	PURCHASE ORDER NUMBER	SALESMAN	TERMS	DUE DATE
	602-999-05	DEDEAUX	NET 30	05-15-03

ROUTE NUMBER	DELIVERY DATE	TRUCK NUMBER	DRIVER	HTR NUMBER	TIME IN	TIME OUT	MILES
0	04-15-03	99	E9				0

# OF QTY'S	BULK OR PKG. SIZE	PRODUCT DESCRIPTION	QUANTITY ORDERED	QUANTITY DELIVERED	TAXES		PRICE	AMOUNT
					FED	STATE		
	GALS	RED ULTRA LOW SULPHUR DIESEL ECD1 FEDERAL SUPERFUND OIL SPILL FEE	1000 1000 1000	1000	X	X	T	
		*** DELIVERY MESSAGE *** EFFECTIVE APRIL 1, 2003 PRECOLLECTED TAXES DECREASED .005 GAS .09 DIESEL .07						

PRODUCT	BEFORE	AFTER	HTR NO. / TANK I.D.	THIS INVOICE DOES NOT INCLUDE STATE OR FEDERAL EXCISE TAXES, SUPER FUNDS OR SURCHARGES UNLESS SHOWN AS A SEPARATE LINE ITEM.	SALES 8.25 TAX TOTAL ➔

*AST DUE AFTER
If account unpaid within time permitted, customer agrees to pay interest at % per annum. In case of suit for collection, all costs of collection, suit and reasonable and attorney's fees will be charged. To secure payment of this invoice and all other amounts due Coast Oil Co., customer hereby grants to Coast Oil Co. a security interest in the inventory and the proceeds of inventory. Coast Oil Co. shall have all remedies as provided in the Uniform Commercial Code upon default including the right to take immediate possession of customer's inventory. The undersigned hereby states that he is authorized to bind the customer to the terms hereof.

ERRORS IN PRICE, EXTENSION AND ADDITION SUBJECT TO CORRECTION.

RECEIVED IN GOOD ORDER

Manul Munro

PRINTED NAME

X

REMIT TO: COAST OIL COMPANY, LLC 4250 WILLIAMS ROAD SAN JOSE, CA 95129-3344

HAZARDOUS MATERIAL NUMBER CALL (PERS): 1-800-633-8253
--

DATE: 04-15-03
INVOICE NUMBER 219976

SHIP TO: TOP GRADE CONSTRUCTION, INC.
50 CONTRACTORS STREET
LIVERMORE, CA 94550

(925) 449-5764

PLEASE PAY FROM THIS INVOICE

Gulf Transportation

260 MICHELE COURT • SOUTH SAN FRANCISCO, CALIFORNIA 94080-6927
(650) 873-1244

DELIVERY RECEIPT

FOUNDATION CONSTRUCTORS/CRDLK
P.O. BOX-97
OAKLEY, CA 94561

S
H
I
P
T
O
P

FOUNDATION CONSTRUCTORS/CRDLK
#1 BLANCHARD RD.
SAN JOSE, CA 95101

CUSTOMER: 10970

SHIPPER: Nelly

ORIGIN:

DRIVER'S COMMENTS

ORDER NUMBER	P.O. NUMBER	DATE	TRUCK	TRAILER#	LOC.	DRIVER	TERMS
266,196		04/28/03	40			Mark	NET 15 DAYS
9 UL SULF DSL 350.00							
FUEL OIL/COMBUSTIBLE LIQUID / NA1993			400			400	
THIS DIESEL FUEL DOES NOT CONTAIN VISIBLE EVIDENCE OF DYE.							
UST Certificate on file							
Certificate # *** NONE ***			H	428035			
MONDAY 8AM TO NO LATER THAN 2PM							
FOR HAZARDOUS MATERIAL EMERGENCY Spill, Leak, Fire, Exposure, or Accident CALL PERS DAY OR NIGHT 1-800-HAZARDOUS 633-8253							

PAY THIS AMOUNT

TRIP MILES LOADED

345 175

345 125

50

BEFORE

AFTER

TRIP HOURS

TRIP	START	FINISH	START	FINISH	TIME
9.00					10:30

RECEIVED BY

TERMS AND CONDITIONS. NET DUE DATE. A FINANCE CHARGE OF 1.5% PER MONTH (ANNUAL PERCENTAGE RATE OF 18%) WILL BE CHARGED ON THE BALANCE REMAINING UNPAID AFTER THE DUE DATE INDICATED ABOVE. MINIMUM CHARGE OF \$1.00. CUSTOMER AGREES THAT IN THE EVENT A SUIT IS BROUGHT AGAINST THE COMPANY FOR VIOLATION OF THIS AGREEMENT, THE COMPANY WILL BE ENTITLED TO ATTORNEY'S FEES AND COSTS AS PROVIDED IN SECTION 1714L OF THE CIVIL CODE.

CONDITION OF CERTIFICATION AQ-52
OFF-ROAD DIESEL-FIRED EQUIPMENT USAGE LISTS

METCALF ENERGY CENTER
MONTHLY COMPLIANCE REPORT #19

CONTRACTOR: Top Grade Construction**DATE: April 2003**

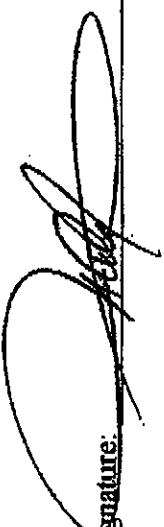
This form must be completed before site mobilization and must include all equipment that will be used on site.
** All diesel equipment must use ultra low sulfur diesel fuel. Engine idle time must be limited to 10 minutes or less.

Equipment Type	Year	Make	Model	Serial #	Engine HP	# of days equipment planned usage	Actual date started	Actual date usage stopped	Type of mitigation implemented (e.g., CARB, CDPF)
Vibrator	1992	Bomag	172PDB	101520500 210	150	4	4/17/03	4/22/03	< 10 days usage
Excavator	2001	CAT	330BL	10Z38092	375	8	4/14/03	4/23/03	< 10 days usage
Excavator	2001	CAT	330BL	10Z38092	375	4	4/25/03	4/30/03	< 10 days usage
Dozer	1997	CAT	D4H	8PB06300	290	8	4/14/03	4/23/03	< 10 days usage
Dozer	1997	CAT	D4H	8PB06300	290	4	4/25/03	4/30/03	< 10 days usage
Excavator	1997	CAT	302.5	4ZW04985	30	7	4/15/03	4/23/03	<100 HP
Excavator	1997	Massey Ferguson	650	C44NFOV 65 00687	65	7	4/14/03	4/22/03	<100 HP
Excavator	1997	Massey Ferguson	650	C44NFOV 65 00687	65	3	4/28/03	4/30/03	<100 HP
Excavator	1998	S CAT	TRAK CX	1054	30	10	4/15/03	4/23/03	<100 HP
Excavator	1998	S CAT	TRAK CX	1054	30	1	4/30/03	4/30/03	<100 HP
Dump Truck	1998	Volvo	A35C	A35CV525 8	260	8	4/14/03	4/23/03	< 10 days usage
Dump Truck	1998	Volvo	A35C	A35CV525 8	260	4	4/25/03	4/30/03	< 10 days usage
Dump Truck	1998	Volvo	A35C	A35CV600 64	260	7	4/14/03	4/22/03	< 10 days usage

CONTRACTOR: Top Grade Construction**DATE: April 2003**

This form must be completed before site mobilization and must include all equipment that will be used on site.
** All diesel equipment must use ultra low sulfur diesel fuel. Engine idle time must be limited to 10 minutes or less.

Equipment Type	Year	Make	Model	Serial #	Engine HP	# of days equipment planned usage	Actual date usage started	Actual usage stopped	Type of mitigation implemented (e.g., CARB, CDPF)
Backhoe	1997	John Deere	710D	T0710DI84 0579	70	4	4/18/03	4/23/03	< 100 HP

CMM Signature: Date: 5/5/03

Comments:

6613289030;

May-5-03 2:41PM;

Page 5/6

CONTRACTOR: Foundation**DATE:** April 2003

This form must be completed before site mobilization and must include all equipment that will be used on site.

**All diesel equipment must use ultra low sulfur diesel fuel. Engine idle time must be limited to 10 minutes or less.

Sent By: PASQUINI ENGINEERING;

6613289030; May-5-03 2:40PM;

Page 2/6

Equipment ID	Year	Make	Model	Serial #	Engine HP	# of days equipment planned usage	Actual date usage started	Actual date usage stopped	Type of mitigation implemented (e.g., CARB, CDPF)
Crane		Manitowoc	2900WC	29591	175	Daily (February - May)	2/11/03		Received exemption.
Crane		Manitowoc	3900W	395037	300	Daily (February - May)	2/11/03		Received exemption.
Crane		Drott	2500	6240824	170	Daily (February - May)	2/11/03		Received exemption.
Crane		American	3420	6614968	180	Daily (February - May)	2/11/03		Received exemption.
Loader	1980	Pettibone	304-A	30-10	175	Daily (February - May)	2/11/03		Received exemption.
Welder		Lincoln	500	U10002 03489	17	Periodic (March - May)	3/3/03		<100 HP
Welder		Lincoln	500	U19909 08503	17	Periodic (March - May)	3/3/03		<100 HP
Forklift	1994	Gradall	534B	8344167	92	Periodic (April - May)	4/7/03		<100 HP

CMX Signature: Date: 5/05/03

Comments:

CONTRACTOR: Foundation**DATE:** April 2003

Sent By: PASQUINI ENGINEERING;

6613289030;

May-5-03 2:41PM;

Page 3/6

This form must be completed before site mobilization and must include all equipment that will be used on site.
** All diesel equipment must use ultra low sulfur diesel fuel. Engine idle time must be limited to 10 minutes or less.

Equipment ID	Year	Make	Model	Serial #	Engine HP	# of days equipment planned usage	Actual date usage started	Actual usage stopped	Type of mitigation implemented (e.g., CARB, CDPF)
Forklift	2001	Gradall	544D	0160000 914	130	Daily (February 26 - May)	2/26/03		1996 or newer

CMM Signature:  Date: 5/5/03

Comments:

DATE: April 2003

This form must be completed before site mobilization and must include all equipment that will be used on site.
**All diesel equipment must use ultra low sulfur diesel fuel. Engine idle time must be limited to 10 minutes or less.

CMM Signature:

Date: 5/5/03

Comments:

This form must be completed before site mobilization and must include all equipment that will be used on site. *** All diesel equipment must use ultra low sulfur fuel.

All diesel equipment must use ultra low sulfur diesel fuel. Engine idle time must be limited to 10 minutes or less.

CMM Signature:

Date: 5/5/02

Comments: *We are in the process of determining the appropriate mitigation for the Amerian crane. We will provide that information as soon as it is available.

CONDITION OF CERTIFICATION AQ-52
COPY OF CONTRACT LANGUAGE

METCALF ENERGY CENTER
MONTHLY COMPLIANCE REPORT #19

EXHIBIT H-2

**CALIFORNIA ENERGY COMMISSION
CONDITIONS OF CERTIFICATION**

Air Quality

Comply with Fugitive Dust Control Plan included as Attachment B to the Storm Water Pollution Prevention Plan and Erosion and Sediment Control and Stormwater Management Plan attached hereto as Attachment 1.

Mitigate, to the extent practical, construction related emission impacts from off-road, diesel-fired construction equipment as stated in the Diesel Mitigation Plan, Condition of Certification AQ-52 attached hereto as Attachment 2.

All heavy equipment shall not remain running at idle for more than ten (10) minutes to the extent practical.

Use ultra low sulfur fuel in diesel burning equipment.

Hazardous Materials

Quantity and strength of any hazardous material used on-site must be approved in advance by the CPM.

Comply with the Construction Waste Management Plan, attached hereto as Attachment 3.

Noise

Comply with Noise Control Plan included in the Metcalf Energy Center Safety Manual, Exhibit J.

SocioEconomics

Recruit employees and procure materials and supplies within the City of San Jose and Santa Clara County where possible in accordance with the Construction Phase Hiring and Procurement Plan, attached hereto as Attachment 4.

Traffic and Transportation

Comply with Construction Traffic Control, Parking and Staging Plan, attached hereto as Attachment 5.

Waste Management

Comply with Construction Waste Management Plan attached hereto as Attachment 3.

Housekeeping, Fire Prevention and Protection Plan

Comply with the Housekeeping, Fire Prevention and Protection included in the Metcalf Energy Center Safety Manual, Exhibit J.

CONDITION OF CERTIFICATION BIO-2
SUMMARY OF BIOLOGICAL MONITORING

METCALF ENERGY CENTER
MONTHLY COMPLIANCE REPORT #19

Biological Resources
Mitigation Monitoring for the
Metcalf Energy Center

MONTHLY COMPLIANCE REPORT #19

April 2003

Prepared by:

CH2M HILL

2485 Natomas Park Drive, Suite 600

Sacramento, California 95833

METCALF ENERGY CENTER

MONTHLY COMPLIANCE REPORT

April 2003

TABLE OF CONTENTS

Introduction.....	1
Monitored Mitigation Measures	2
Summary of Activities.....	3
Worker Environmental Awareness Training.....	5
General Notes and Observations.....	5

APPENDICES

- A) Cumulative Wildlife Species Observed in or Near the Project Area**
- B) WEAT Sign-In Sheets**
- C) Wildlife Observation Forms**
- D) Photographs**

INTRODUCTION

The Metcalf Energy Center (MEC) site is located in the Santa Clara Valley within the Urban Service Area of south San Jose. The MEC will be a 600-megawatt natural-gas-fired combined cycle power plant with the following features:

- A 230-kilovolt (kV) switchyard and approximately 240 feet of new 230-kV transmission line that will loop into the existing Pacific Gas and Electric (PG&E) 230-kV Metcalf-Monta Vista No. 4 transmission on Tulare Hill.
- An approximately one mile, 16-inch natural gas pipeline that will connect to an existing PG&E transmission backbone pipeline that runs along the eastern side of U.S. 101.
- An approximately 10.2-mile water pipeline from a tap into the South Bay Water Recycling Program's (SBWR) existing main pipeline in eastern San Jose will be used for cooling water.
- An approximately 1.2-mile water pipeline will supply domestic and backup water supplies.
- A stormwater detention basin and discharge outfall structure to Fisher Creek.
- A new access road from Monterey Road at the Blanchard Road junction and visual screening and landscape corridor along the new access road that will require 6 acres of agricultural land south of the MEC site.
- A second access road (west access road) may extend from Santa Teresa Boulevard to the MEC site that will require 2.0 acre of agricultural land.
- Two temporary construction laydown yards totaling 24.8-acres are located in agricultural land south of the MEC site.

The project was designed to avoid significant negative impacts to sensitive biological resources to the furthest extent feasible. Mitigation measures were developed through consultation with the U. S. Fish and Wildlife Service (USFWS), U. S. Army Corps of Engineers (Corps), National Marine Fisheries Service (NMFS), California Department of Fish and Game (CDFG), and the Water Quality Control Board to minimize unavoidable project impacts. Permits and authorizations from these agencies included conditions that must be monitored by the Designated Biologist. The Biological Monitor will be present onsite during all phases of construction to ensure compliance with the mitigation measures outlined in the *Biological Resources Mitigation Implementation and Monitoring Plan* (BRMIMP). The following report includes all MEC project activities monitored during April 2003.

MONITORED MITIGATION MEASURES

Mitigation measures were developed through consultation with USFWS, NMFS, CDFG, San Francisco Bay Regional Water Quality Control Board (Water Board), Corps, and California Energy Commission (CEC) for the MEC project. Compliance with any conditions of the Corps, Water Board, and CDFG permits will be included when permits are received and used on the project.

Conditions of Certification (COC) BIO-1 through BIO-13 were in compliance during April 2003. In compliance with COC BIO-2, the Biological Monitor examined and cleared Phase 2 activity areas immediately prior to and during April activities.

The following conditions described in the USFWS Biological Opinion (BO) remained pertinent to the April monitoring efforts:

- Garbage must be removed from the site.
- Activity must be limited to the minimum necessary.
- The boundaries of the site will be clearly marked.
- All equipment, personnel, and access shall be confined to designated work areas and connecting roadways.
- Refueling will occur at least 50 feet away from aquatic habitats.
- Weekly California red-legged frog surveys will be conducted in work areas (following the 10 days of daily surveys conducted in April).
- Bullfrogs found during amphibian surveys, including adult, subadult, and larval bullfrogs, shall be captured and killed.
- The Biological Monitor will inspect the erosion control features daily.
- Concrete trucks must be washed within a designated area with a surrounding berm.

All activities complied with conditions described in the NMFS BO. Work near Coyote Creek, where NMFS has jurisdiction over anadromous fish (salmon and steelhead), will likely occur in the summer 2003.

The Monitor was available throughout the month to respond to biological issues as needed. April activities are described below.

SUMMARY OF ACTIVITIES

This report includes project activities that took place during April 2003. April activities included ongoing site construction, MEC Ecological Preserve Enhancement, and presentation of the Worker Environmental Awareness Training (WEAT) program to project personnel. The following provides a description of these activities. A cumulative wildlife species list is included in Appendix A. WEAT sign-in sheets are included in Appendix B. Wildlife Observation Forms are included in Appendix C. Representative photographs of April activities are included in Appendix D. The Biological Monitor completes daily logs summarizing activities, personal interactions, and observations. These logs are available on request.

Phase 2 Site Construction

April Phase 2 site activities included ongoing pile driving; reinforcement of the installed piles with rebar and concrete; excavation for the re-circulation waterline; expansion of the cooling towers pad; and continued equipment transport/storage onto the laydown yards. Some of these activities will likely continue into May 2003.

The Biological Monitor performed general and species-specific wildlife clearance surveys immediately prior to and during all ground disturbance activities. The Biological Monitor continued to survey for injured, dead, and entrapped wildlife throughout each construction zone.

The Biological Monitor performed spot checks of April Phase 2 activities. The spot checks focused on ensuring that work complied with all CEC COCs and on whether upcoming activities on the construction schedule would require continuous or sporadic on-site biological monitoring. All construction related activity remained outside the Fisher Creek riparian corridor.

Pile Driving

Pile driving on the footprint site was ongoing throughout April 2003. In addition, excavation occurred on the footprint site allowing placement of piles. Excavated soil was moved to the project's soil stockpile located on the north laydown yard. Pile driving will likely continue through the coming weeks.

Pile Reinforcement

Steel piles driven into the MEC footprint site will bear the heavy loads of various power plant structures (e.g. cooling towers, CTGs, etc.). Throughout April re-bar cages were installed and concrete was poured into each pile. Reinforcement of the piles will likely continue through the coming weeks.

Concrete mixer trucks utilized the designated concrete washout station prior to leaving the site. The washout location was moved from its previous location to allow placement of the steel piles. The new washout station has bermed sides, which prevents runoff into sensitive resource areas.

Re-circulation Waterline

Trench excavation for a re-circulation waterline commenced on April 14th. The waterline is located on the main site, adjacent to the cooling towers pad. An excavator and a backhoe were used to dig the associated, approximately 15-foot deep, trench. On April 30th, excavation for the waterline was completed. Installation of the waterline pipes will likely begin next month.

The Biological Monitor was onsite daily during excavation activities. Prior to start of work each day, the monitor inspected the open trench for entrapped wildlife. None were observed. The Biological Monitor will continue to inspect the open excavation for entrapped wildlife as long as areas of open trench remain.

Temporary Access Route

During construction of the MEC power plant, heavy equipment will access the footprint site by various temporary access routes. April construction included the continued elevation of the western edge of the cooling tower pad to allow temporary access. Spoil material from the re-circulation waterline excavation process was used as fill material. This expansion will be removed prior to completion of the MEC project.

Power Plant Materials Storage

Heavy haul trucks continued to transport equipment onto the north and south laydown yards. All traffic was confined to previously established roads. These activities will continue through the coming months.

MEC Ecological Preserve Enhancement

April 2003 enhancement activities included continued installation of protective wire mesh around plantings and weed control.

Initially, wire mesh was only installed around planted shrubs (e.g. coffeeberry and elderberry). To limit potential herbivory to all planted vegetation, wire mesh was also installed around planted trees. Additional meshing will likely be installed around the remaining trees next month.

Tall grass and other forbs were physically removed or managed along the preserve access road and around the water well solar panels. Vegetation was mowed down the center of the dirt access road with the use of a tractor. Mowing tall grass along the access road will likely limit the potential for vehicle-sparked fires during the dry summer months. Vegetation was removed from perimeter of the solar powered water well to prohibit shading of the solar panels.

WORKER ENVIRONMENTAL AWARENESS TRAINING

The WEAT program was developed exclusively for the MEC project. Program materials include a handbook, video, and poster. During April, the WEAT program was administered as required by COC BIO-6 from the CEC *Commission Decision*.

In April, WEAT continued with the presentation of a training video and distribution of WEAT handbooks.

A total of 31 personnel received WEAT training during April for a total of 528 employees trained at MEC. A Mortenson Site Safety Officer administered the WEAT training to all new April employees. A list of April WEAT attendees is included in Appendix B. Signed affidavits are kept on file by both Calpine's Compliance Manager and the Designated Biologist.

GENERAL NOTES AND OBSERVATIONS

April activities were minimal with all site activities confined to previously disturbed areas. The Biological Monitor's duties were limited accordingly. The Biological Monitor remained on-call for most of the month. Although Phase 2 activities are ongoing (e.g. equipment delivery, pile driving, pile reinforcement), the Biological Monitor's duties will likely remain limited until full construction commences.

The Biological Monitor continued nesting surveys for common and sensitive bird species. These surveys focused on areas within 500-feet of MEC Phase 2 activities and Ecological Preserve enhancement activities, namely the Fisher Creek Riparian Corridor. The typical nesting season for birds is March to August. Nesting activity was observed for Bullock's oriole (*Icterus bullockii*), Nuttal's woodpecker (*Picoides nuttallii*), house finch (*Carpodacus mexicanus*), and cliff swallow (*Petrochelidon pyrrhonota*). Nesting behavior by sensitive species was not observed.

On April 9th, MEC personnel discovered an active house finch nest on a tarpaulin covering a stored turbine unit. Calpine's Environmental Compliance Manager was immediately contacted and in turn notified the biological monitor. The Biological Monitor inspected the nest periodically throughout month to ensure that the eggs and chicks were not abandoned due to nearby work activities. It will be necessary for Calpine to remove the tarpaulin in May 2003. If the nestlings have not fledged by that time, the Biological Monitor will implement a nest relocation plan.

APPENDIX A

Cumulative Wildlife Species Observed In or Near the Project Area

**Cumulative Wildlife Species Observed In or Near the Metcalf Energy Center Project
and Linear Facilities Area (May 2001 to April 30, 2003)**

Common Name	Scientific Name	Location
INSECTS		
Bay checkerspot butterfly	<i>Euphydryas editha</i> spp. <i>bayensis</i>	TH
Cabbage white butterfly	<i>Pieris rapae</i>	EC
Anise swallowtail butterfly	<i>Papilio zelicaon</i>	TH
Buckeye butterfly	<i>Precis coenia</i>	TH
Painted lady butterfly	<i>Vanessa cardui</i>	EC
Opler's longhorn moth	<i>Adela oplerella</i>	TH
Tarantula	<i>Euryopelma californicum</i>	TH
AMPHIBIANS AND REPTILES		
Pacific tree frog	<i>Hyla regilla</i>	TH, FC, EC
Arboreal salamander	<i>Aneides lugubris</i>	TH, EC
Western fence lizard	<i>Sceloporus occidentalis</i>	EC, TH, LA, FC
Side-blotched lizard	<i>Uta stansburiana</i>	EC
Southern alligator lizard	<i>Elgaria multicarinata</i>	EC, TH
Western skink	<i>Eumeces skiltonianus</i>	TH
Gopher snake	<i>Pituophis melanoleucus</i>	EC, LA, FC
BIRDS		
Pied-billed grebe	<i>Podilymbus podiceps</i>	FC, CC
American white pelican	<i>Pelecanus erythrorhynchos</i>	EC*
Double-crested cormorant	<i>Phalacrocorax auritus</i>	CC*
Canada goose	<i>Branta canadensis</i>	EC*, CC
Mallard	<i>Anas platyrhynchos</i>	FC, CC
Gadwall	<i>Anas strepera</i>	FC
Wood duck	<i>Aix sponsa</i>	FC, CC
Common merganser	<i>Mergus merganser</i>	FC
Hooded merganser	<i>Lophodytes cucullatus</i>	FC
American coot	<i>Fulica americana</i>	FC, CC
Great blue heron	<i>Ardea heroides</i>	FC
Green heron	<i>Butorides virescens</i>	FC, CC
Great egret	<i>Casmerodius albus</i>	FC
Turkey vulture	<i>Cathartes aura</i>	EC*, TH, LA
Killdeer	<i>Charadrius vociferus</i>	LA, LEA*, EC
Location:		
CC = Coyote Creek Riparian Corridor	TH = Thoreau Hills Ecological Reserve	
BC = Metcalf Energy Center Plant Site	TL = Transmission Line Corridor	
LC = Lasdon Creek Riparian Corridor	WL = Waterline Corridor	
GP = Gas Pipeline Corridor	LEA = Laydown expansion area	
LA = Laydown Area		
Notes:		
* Flyover or otherwise not utilizing organic sources		
** Non-typical sightings = carcass, feather, nest, track		

**Cumulative Wildlife Species Observed In or Near the Metcalf Energy Center Project
and Linear Facilities Area (May 2001 to April 30, 2003) (Continued)**

Common Name	Scientific Name	Location
BIRDS (continued)		
White-tailed kite	<i>Elanus caeruleus</i>	FC
Northern harrier	<i>Circus cyaneus</i>	FC, TH
Golden eagle	<i>Aquila chrysaetos</i>	TH
Osprey	<i>Pandion haliaetus</i>	CC*, TH, EC, FC
Sharp-shinned hawk	<i>Accipiter striatus</i>	FC, TH
Cooper's hawk	<i>Accipiter cooperii</i>	CC, EC*, FC
Red-shouldered hawk	<i>Buteo lineatus</i>	EC, FC, LA, CC, LEA
Red-tailed hawk	<i>Buteo jamaicensis</i>	EC, FC, GP, TH, TL, CC
American kestrel	<i>Falco sparverius</i>	EC, TH
Prairie falcon	<i>Falco mexicanus</i>	TH
California quail	<i>Callipepla californica</i>	CC, GP
Spotted sandpiper	<i>Actitis macularia</i>	FC
Mourning dove	<i>Zenaida macroura</i>	EC, FC, TH, TL, CC
Rock dove	<i>Columba livia</i>	EC*, TH*
Anna's hummingbird	<i>Calypte anna</i>	TH, CC
Hummingbird sp.		EC, TH, FC
Belted kingfisher	<i>Ceryle alcyon</i>	FC, EC*, CC
Northern flicker	<i>Colaptes auratus</i>	EC, FC, TH
Nuttall's woodpecker	<i>Picoides nuttallii</i>	FC, FC** (nest), EC
Downy woodpecker	<i>Picoides pubescens</i>	EC, FC
Black phoebe	<i>Sayornis nigricans</i>	EC, FC, TL, LEA, CC
Say's phoebe	<i>Sayornis saya</i>	LEA
Western scrub-jay	<i>Aphelocoma californica</i>	EC, FC, LEA, CC
Common raven	<i>Corvus corax</i>	EC, TH, FC, CC
Horned lark	<i>Eremophila alpestris</i>	TH
Cliff swallow	<i>Petrochelidon pyrrhonota</i>	FC, FC** (nest), EC, TL
Barn swallow	<i>Hirundo rustica</i>	EC, LEA
Oak titmouse	<i>Baeolophus inornatus</i>	FC, CC
Chestnut-backed chickadee	<i>Poecile rufescens</i>	FC
Bushtit	<i>Psaltriparus minimus</i>	EC, FC, FC** (nest), GP, TL, CC
White-breasted nuthatch	<i>Sitta carolinensis</i>	FC
Location		
CC = Coyote Creek/Rinarian Corridor		TH = Tulare Hill Ecological Preserve
EC = Metcalf Energy Center Plant Site		TL = Transmission Line Corridor
FC = Fisher Creek/Rinarian Corridor		WL = Water Line Corridor
GP = Gas Pipe Line Corridor		LEA = Laydown expansion area
LA = Laydown Area		
Notes:		
*Flyover or otherwise monitoring area resources		
** Non-active sign (de-carcass, feather, nest, track)		

**Cumulative Wildlife Species Observed In or Near the Metcalf Energy Center Project
and Linear Facilities Area (May 2001 to April 30, 2003) (Continued)**

Common Name	Scientific Name	Location		
BIRDS (CONTINUED)				
Bewick's wren	<i>Thryomanes bewickii</i>	FC, TH, CC		
Rock wren	<i>Salpinctes obsoletus</i>	FC, TH		
Ruby-crowned kinglet	<i>Regulus calendula</i>	TH, FC, CC		
Northern mockingbird	<i>Mimus polyglottos</i>	EC, FC		
Western bluebird	<i>Sialia mexicana</i>	FC, CC, EC, LEA		
American robin	<i>Turdus migratorius</i>	LA, EC, CC		
Loggerhead shrike	<i>Lanius ludovicianus</i>	TH, FC, EC		
Western kingbird	<i>Tyrannus verticalis</i>	CC		
European starling	<i>Strunus vulgaris</i>	LEA, FC, EC		
Rose-breasted grosbeak	<i>Pheucticus ludovicianus</i>	EC		
California towhee	<i>Pipilo crissalis</i>	EC, TH, FC, CC		
Dark-eyed junco	<i>Junco hyemalis</i>	FC, TH, CC		
White-crowned sparrow	<i>Zonotrichia leucophrys</i>	EC, FC, TH, CC		
Song sparrow	<i>Melospiza melodia</i>	EC, LA, LEA, FC		
Yellow-rumped warbler	<i>Dendroica magnolia</i>	TH, FC, CC		
Western meadowlark	<i>Sturnella neglecta</i>	EC, LA, TH		
Red-winged blackbird	<i>Agelaius phoeniceus</i>	FC		
Brewer's blackbird	<i>Euphagus cyanocephalus</i>	FC, EC, CC		
Bullock's oriole	<i>Icterus bullockii</i>	FC; FC** (nest), CC		
House finch	<i>Carpodacus mexicanus</i>	EC, LA**, CC, FC		
American goldfinch	<i>Carduelis tristis</i>	LEA		
Lesser goldfinch	<i>Carduelis psaltria</i>	EC, FC, CC, TH		
House sparrow	<i>Passer domesticus</i>	EC, FC, CC		
MAMMALS				
Common raccoon	<i>Procyon lotor</i>	FC** (track)		
Striped skunk	<i>Mephitis mephitis</i>	TH** (track)		
Opossum	<i>Didelphis marsupialis</i>	EC		
Coyote	<i>Canis latrans</i>	TH		
Feral cat	<i>Felis catus</i>	EC		
Bobcat	<i>Lynx rufus</i>	CC** (carcass)		
California ground squirrel	<i>Spermophilus beechyi</i>	EC, FC, TH, TL		
Western gray squirrel	<i>Sciurus griseus</i>	FC		
Location				
CC = Chayote Creek/Rapidian Corridor	TL = Tupper Hill Ecological Preserve			
MPC = Metcalf Pipeline/Cerro Plant Site	TC = Transmission Line Corridor			
FCC = Fisher Creek/Rapidian Corridor	WL = Water Line Corridor			
GPE = Gas Pipe Line Corridor	LEA = Laydown expansion area			
LA = Laydown Area				
Notes				
* Flyover or otherwise non-utilizing area resources.				
** Non-active sign (i.e., carcass, feather, nest, track).				

**Cumulative Wildlife Species Observed In or Near the Metcalf Energy Center Project
and Linear Facilities Area (May 2001 to April 30, 2003) (Continued)**

Common Name	Scientific Name	Location
MAMMALS (CONTINUED)		
Valley pocket gopher	<i>Thomomys bottae</i>	LA**(carcass)
California vole	<i>Microtus californicus</i>	FC, EC
Deer mouse	<i>Peromyscus maniculatus</i>	TH
Norway Rat	<i>Rattus norvegicus</i>	EC
Common muskrat	<i>Ondatra zibethicus</i>	FC
Black-tailed jackrabbit	<i>Lepus californicus</i>	EC, TH
Feral pig	<i>Sus scrofa</i>	CC** (carcass)
Mule (black-tailed) deer	<i>Odocoileus hemionus</i>	FC, GP, CC
Location		
CC = Coyote Creek Riparian Corridor	TH = Thunare Hill Ecological Preserve	
EC = Metcalf Energy Center Plant Site	TL = Transmission Line Corridor	
FC = Fisher Creek Riparian Corridor	WL = Water Line Corridor	
GP = Gas Pipe Line Corridor	LEA = Laydown Expansion area	
LA = Laydown Area		
Notes		
* Flyover or otherwise not utilizing area resources		
** Non-active sign (ex. carcass, feather, nest, track)		

APPENDIX B

WEAT Sign-In Sheets

METCALF ENERGY CENTER
ENVIRONMENTAL TRAINING
SIGN-IN SHEET
(Biology, Archaeology, & Paleontology)

DATE: 4/4/03

PLEASE NOTE:

By signing below, I acknowledge that I have attended the Worker Environmental Awareness Training Program for the Metcalf Energy Center Project, and I agree to comply with all the environmental requirements presented.

Instructor/s:

WEAT VIDEO (Administered by C. Conway)

METCALF ENERGY CENTER
ENVIRONMENTAL TRAINING
SIGN-IN SHEET
(Biology, Archaeology, & Paleontology)

(Biology, Archaeology, & Paleontology)

DATE: 4-8-03

PLEASE NOTE:

By signing below, I acknowledge that I have attended the Worker Environmental Awareness Training Program for the Metcalf Energy Center Project, and I agree to comply with all the environmental requirements presented.

Instructor/s:

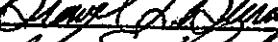
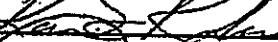
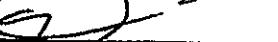
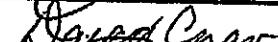
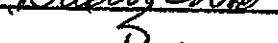
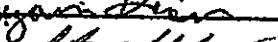
WEAT VIDEO Administered by Connie Conaway

METCALF ENERGY CENTER
ENVIRONMENTAL TRAINING
SIGN-IN SHEET
(Biology, Archaeology, & Paleontology)

DATE: 4-114-03

PLEASE NOTE:

By signing below, I acknowledge that I have attended the Worker Environmental Awareness Training Program for the Metcalf Energy Center Project, and I agree to comply with all the environmental requirements presented.

	Name (print)	Name (signature)	Company
479	JOHN LUCHINSWER		MILLER THOMPSON
480	JESSICA CHUNG		MILLER/THOMPSON
481	Brayel L. Burns		Top Grade
482	Karen S. Robards		Top Grade
483	ZACK BOOTS		Granite rock
484	DAVID CORSO		Granite rock
485	Niam Bean		Top Grade
486	MODESTO HUERTA GUZMAN		Top Grade

Instructors:

WEAT VIDEO Administered by Connie Conway

METCALF ENERGY CENTER
ENVIRONMENTAL TRAINING
SIGN-IN SHEET
(Biology, Archaeology, & Paleontology)

DATE: 4-21-2003

PLEASE NOTE:

By signing below, I acknowledge that I have attended the Worker Environmental Awareness Training Program for the Metcalf Energy Center Project, and I agree to comply with all the environmental requirements presented.

Instructor/s:

WEAT VIDEO (Administered by Ronnie Conway

METCALF ENERGY CENTER
ENVIRONMENTAL TRAINING
SIGN-IN SHEET
(Biology, Archaeology, & Paleontology)

DATE: 4-22-03

PLEASE NOTE:

By signing below, I acknowledge that I have attended the Worker Environmental Awareness Training Program for the Metcalf Energy Center Project, and I agree to comply with all the environmental requirements presented.

Instructor/s:

WEAT VIDEO (Administered by Connie Conway)

METCALF ENERGY CENTER
ENVIRONMENTAL TRAINING
SIGN-IN SHEET
(Biology, Archaeology, & Paleontology)

DATE: 4-23-03

PLEASE NOTE:

By signing below, I acknowledge that I have attended the Worker Environmental Awareness Training Program for the Metcalf Energy Center Project, and I agree to comply with all the environmental requirements presented.

Instructor/s:

WEAT VIDEO Administered by Connie Conway

METCALF ENERGY CENTER
ENVIRONMENTAL TRAINING
SIGN-IN SHEET
(Biology, Archaeology, & Paleontology)

DATE: 4-28-03

PLEASE NOTE:

By signing below, I acknowledge that I have attended the Worker Environmental Awareness Training Program for the Metcalf Energy Center Project, and I agree to comply with all the environmental requirements presented.

Name (print)	Name (signature)	Company
ARMULFO GUTIERREZ	Arnulfo Gutierrez	M.T.
ERROL KISTER	Errol Kister	BRACE
Tom Watson	Tom Watson	Brown
Jefferson Thompson	Jefferson Thompson	MATAMORES
Carl Johnson	Carl Johnson	MATAMORES
Brian Williamson	Brian Williamson	MATAMORES
Rick Meyer	Rick Meyer	MATAMORES
Francisco Galindo	Francisco Galindo	MILLER THOMPSON
John V. O'Brien	John V. O'Brien	MILLER THOMPSON
Chris Imke	Chris Imke	MILLER THOMPSON
Raul Martinez	Raul Martinez	MILLER THOMPSON
Rosendo Magallanes	Rosendo Magallanes	MILLER THOMPSON

Instructor/s:

WEAT VIDEO (Administered by Connie Conroy)

METCALF ENERGY CENTER
ENVIRONMENTAL TRAINING
SIGN-IN SHEET
(Biology, Archaeology, & Paleontology)

DATE: 4-29-03

PLEASE NOTE:

By signing below, I acknowledge that I have attended the Worker Environmental Awareness Training Program for the Metcalf Energy Center Project, and I agree to comply with all the environmental requirements presented.

Instructor/s:

WEAT VIDEO (Administered by Connie Conrad)

APPENDIX C

Wildlife Observation Forms

Figure B-1. Wildlife Observation Form

WILDLIFE OBSERVATION FORM	
To Record Animals Found In Metcalf Energy Center Project Areas	
To be filled out by personnel who find active nest sites and burrows, dens, and dead or injured wildlife, or other biological resources during daily construction activities.	
Name of employee: Kristen O'Kane	
Date: 4/10/03	
Location of observation: Adjacent to temporary railroad spur, in a tarpoline covering a turbine.	
Condition of wildlife: alive <input checked="" type="checkbox"/> dead <input type="checkbox"/>	
Species: house finch nest with eggs and ♀	
Possible cause of injury or death: N/A	
Where is the animal currently? Nest is located on a loose piece of tarp, which sits creating a shelf onto which the nest	
Is the resource in danger of project (or other) impacts? Yes, If project activities require removing the tarp from the turbine, if work activities cause mother to abandon nest.	
Comments: Nest and immediate area around nest will be avoided as much as possible. When it becomes necessary to remove tarpoline, Biological Monitor will attempt to passively relocate the nest.	
Please contact the Designated Biologist for questions and to report any wildlife, nest, or den in the project area that could be disturbed. The Designated Biologist will advise personnel on measures required by California Department of Fish and Game and United States Fish and Wildlife Service to protect fish, wildlife and vegetation from construction impacts.	
DESIGNATED BIOLOGIST: Debra Crowe (916) 920-0212 ext. 385	
BIOLOGICAL FIELD MONITOR: Todd Ellwood (408) 839-2402	
COMPANY: CH2MHILL ADDRESS: 2485 Natomas Park Drive, St. 600, Sacramento, CA 95833	
USFWS CONTACT: Cecilia Brown (916) 414-6625	
CDFG CONTACT: Mark Imsdahl (707) 944-5512	

APPENDIX D

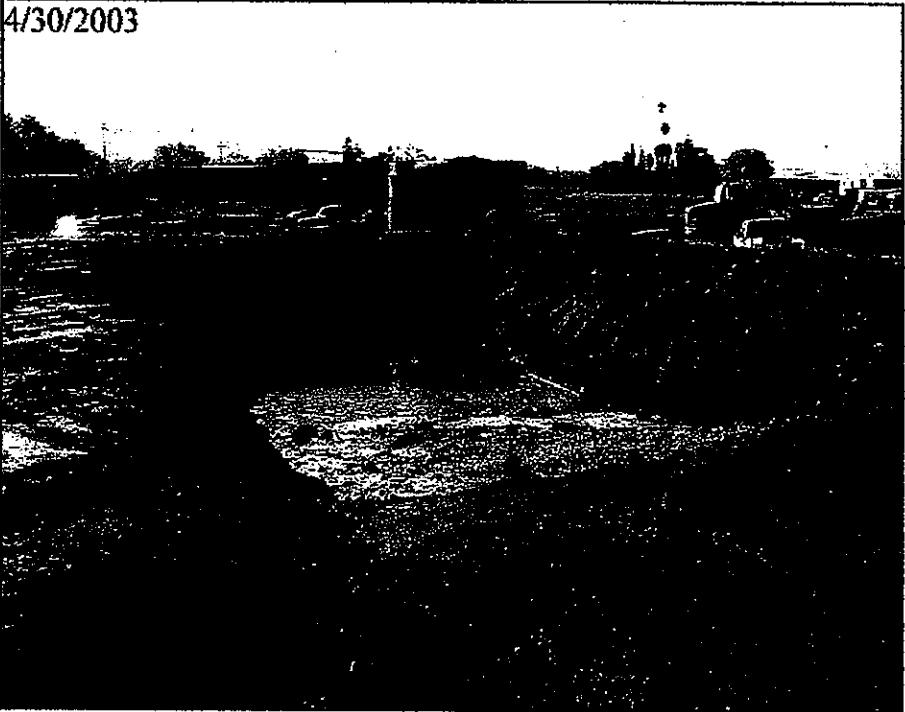
Photographs

4/14/2003



Trenching for Re-Circulation Water Line

4/30/2003



New Concrete Washout Station

4/14/2003



Foundation Re-Contouring for Temporary Access Road

CONDITION OF CERTIFICATION CUL-7
WEEKLY SCHEDULES

METCALF ENERGY CENTER
MONTHLY COMPLIANCE REPORT #19

© Primavera Systems, Inc.

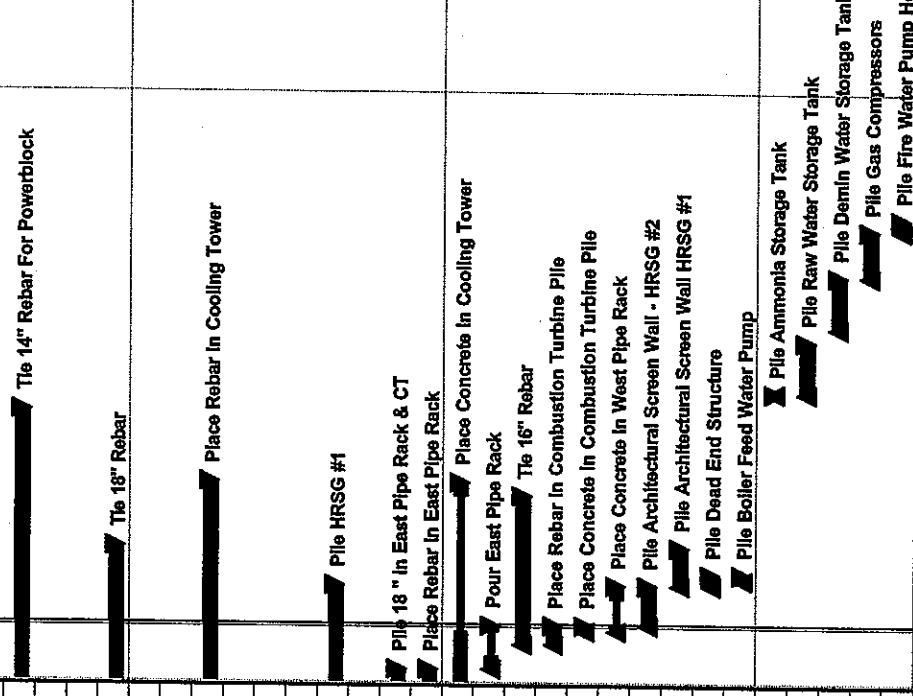
MEC 3 Week Rolling Schedule

4	Date	Revision	Checked	Approved

Sheet 1 of 4

三

Start Date
Finish Date
Data Date
Run Date

Start Date	13MAY02	17JUN03	10APR03	Early Bar	MET3
Finish Date				Progress Bar	
Data Date				Critical Activity	
Run Date	11APR03 14:19				
CM.0050	Pile First Third of ST GSU	08JUN03	08JUN03		
CM.0050	Pile Combustion Turbine	09JUN03	09JUN03		
CM.0050	Pile Second Third of ST GSU	13JUN03	13JUN03		
CM.0070	Pile HRSG #1 Pipe Rack	16JUN03	15JUN03		
CM.0020	Pile Last Third of ST GSU	20JUN03	23JUN03		
CM.0020	Module 2 Foundation Constructors	10JEB03	14JEB03		
CM.0040	Pile HRSG #2 Pipe Rack	17JEB03	14MAY03		
CM.0030	Cut off Plain ST - GSU	17JEB03	20JEB03		
CM.0032	Tie 14" Rebar For Powerblock	17JEB03	12MAY03		
CM.0020	Pile Interconnection Pipe Rack	24JEB03	27JEB03		
CM.0030	Ties Rebar for ST GSU	24JEB03	25JEB03		
CM.0034	Tie 18" Rebar	24JEB03	24JEB03		
CM.0030	Piles Rebar Tie Back Piles	24JEB03	28JEB03		
CM.0030	Piles Rebar cages in ST GSU	07MAR03	07MAR03		
CM.0057	Place Rebar in Cooling Tower	08MAR03	08MAR03		
CM.0040	Place Concrete in ST GSU Piles	11MAR03	11MAR03		
CM.00345	Place Rebar in Steam Turbine	12MAR03	18MAR03		
CM.00360	Place Concrete in Tie Back Piles	12MAR03	12MAR03		
CM.0020	Pile HRSG #1	13MAR03	15APR03		
CM.00346	Place Concrete in Steam Turbine	19MAR03	19MAR03		
CM.00371	Pile 18" In East Pipe Rack & CT	25MAR03	02APR03		
CM.00363	Place Rebar in East Pipe Rack	25MAR03	02APR03		
CM.00367	Place Concrete in Cooling Tower	25MAR03	01MAY03		
CM.00363	Pour East Pipe Rack	03APR03	03APR03		
CM.00343	Tie 16" Rebar	07APR03	29APR03		
CM.00347	Place Rebar in Combustion Turbine Pile	07APR03	07APR03		
CM.00348	Place Concrete in Combustion Turbine Pile	08APR03	08APR03		
CM.00369	Place Concrete in West Pipe Rack	08APR03	15APR03		
CM.00130	Pile Architectural Screen Wall - HRSG #2	10APR03	15APR03		
CM.00110	Pile Architectural Screen Wall HRSG #1	16APR03	20APR03		
CM.00189	Pile Dead End Structure	16APR03	17APR03		
CM.00153	Pile Boiler Feed Water Pump	17APR03	17APR03		
CM.00170	Pile Ammonia Storage Tank	18MAY03	18MAY03		
CM.00180	Pile Raw Water Storage Tank	18MAY03	20MAY03		
CM.00190	Pile Demin Water Storage Tank	20MAY03	02JUN03		
CM.00200	Pile Gas Compressors	03JUN03	03JUN03		
CM.00210	Pile Fire Water Pump House	10JUN03	11JUN03		
					

Sheet 2 of 4

T



MEC 3 Week Rolling Schedule
Rolling 3 Week Schedule

		Start	End	Duration
ELEC00100	Install Temp Facility Elec System	28APR03	16MAY03	
BREI001	BREI Release Feed Water Pump Piles	ZSE02A	ZSER02A	
BREI002	BREI Release ST Pedestal Piles	03OCT02A	03OCT02A	
BREI005	BREI Release ST Platform Piles	25OCT02A	25OCT02A	
BREI007	ReDesign the Storm Basin Reser	28OCT02A	28OCT02A	
BREI003	BREI Release Cooling Tower Pump Pit Piles	01NOV02A	01NOV02A	
BREI004	BREI Release Cooling Tower Hatch Header Piles	01NOV02A	01NOV02A	
BREI006	BREI Release HRSG Piles	01NOV02A	01NOV02A	
BREI008	BREI Release ST GSU Piles	21NOV02A	21NOV02A	
BREI011	BREI Release Pipe Rack Piles	21NOV02A	21NOV02A	
BREI012	BREI Release Screen Wall Piles	21NOV02A	21NOV02A	
BREI013	BREI Release Ammonia Storage Piles	10APR03	10APR03	
BREI014	BREI Release Raw Water Tank Piles	10APR03	10APR03	
BREI015	BREI Release Demin Water Tank Piles	18APR03	18APR03	
BREI016	BREI Release Gas Compressor Piles	28APR03	28APR03	
BREI017	BREI Release Fire Water Pump Piles	06MAY03	06MAY03	
ERTH-00010	Construct the Storm Water Outfall	16SEP02A	18OCT02A	
ERTH-00020	Touchup Hydroseed	04NOV02A	04NOV02A	
ERTH-00030	Install Temp Storm Water Drainage System	25NOV02A	09DEC02A	
ERTH-00040	Out Pipe Rads and HRSG b/BOC	26DEC02A	30DEC02A	
ERTH-00050	Out Cooling Tower Hatch b/BOC	28DEC02A	27DEC02A	
ERTH-00060	Clean out CT Foundation FR	27DEC02A	27DEC02A	
ERTH-00070	Cut First Third of STG GSU b/ BOC	03JAN03A	03JAN03A	
ERTH-00100	C/D treat the project site	03JAN03A	03JAN03A	
ERTH-00080	Cut Second Third of STG GSU b/ BOC	08JAN03A	08JAN03A	
ERTH-00060	Cut ST Pedestal b/ BOC	15JAN03A	15JAN03A	
ERTH-00110	Cut last Third of STG GSU b/ BOC	16JAN03A	16JAN03A	
ERTH-00120	Install Reminder of Construction Fence	04FEB03A	12FEB03A	
ERTH-00160	Cut ST GSU b/ BOC	26FEB03A	26FEB03A	
ERTH-00130	Grade to Subgrade in Temp Facilities Area	21APR03	08MAY03	
ERTH-00140	Install First Grade Fabric and Rock	08MAY03	21MAY03	
UGMECH-0010	Design Support of Excavation	30OCT02A	18NOV02A	
UGMECH-0040	Motors for Support of Excavation	03DEC02A	09DEC02A	
CM-0030	Install Street Piping System	10DEC02A	04MAR03A	
Start Date Finish Date Data Date Run Date				
13MAY02 17JUL03 10APR03 14:19				
MET's Early Bar Progress Bar Critical Activity				
Approved Checked Revised Date				
MEC 3 Week Rolling Schedule Rolling 3 Week Schedule				
© Primavera Systems, Inc.				

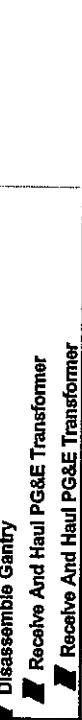
Sheet 3 of 4

Start Date
Finish Date
Data Date
Run DateApproved
Checked
Revised
Date

Install Temp Facility Elec System

MEC 3 Week Rolling Schedule
Rolling 3 Week Schedule

Project Name:		Project ID:		Start Date:		End Date:		Year:	
Project Name:		Project ID:		Start Date:		End Date:		Year:	
ERTH-00150	Excavation of Water Circulation Pipe	ERTH-00150	14APR03	14APR03	17APR03	17APR03	17APR03	2003	JUN
UGW-ECH-0080	Mobilize Ctc Water Pipe Contractor	UGW-ECH-0080	23APR03	23APR03	25APR03	25APR03	25APR03	2003	JUN
UGW-ECH-0050	Install the First Section of CW Supply Pipe	UGW-ECH-0050	25APR03	25APR03	25APR03	25APR03	25APR03	2003	JUN
UGW-ECH-0100	Install the First Section of CW Return Pipe	UGW-ECH-0100	25APR03	25APR03	15MAY03	15MAY03	15MAY03	2003	JUN
UGW-ECH-0110	Install the Second Section of CW Supply Pipe	UGW-ECH-0110	13MAY03	13MAY03	05JUN03	05JUN03	05JUN03	2003	JUN
UGW-ECH-0120	Install the Second Section of CW Return Pipe	UGW-ECH-0120	20MAY03	20MAY03	06JUN03	06JUN03	06JUN03	2003	JUN
UGW-ECH-0130	Backfill The First Sections of CW Pipe	UGW-ECH-0130	20MAY03	20MAY03	26MAY03	26MAY03	26MAY03	2003	JUN
CW-00200	Remove the First Section of Sheet Piling	CW-00200	27MAY03	27MAY03	06JUN03	06JUN03	06JUN03	2003	JUN
UGW-ECH-0140	Backfill the Second Sections of CW Pipe	UGW-ECH-0140	06JUN03	06JUN03	21JUN03	21JUN03	21JUN03	2003	JUN
CW-00200	Remove the Second Section of Sheet Piling	CW-00200	21JUN03	21JUN03	10JUL03	10JUL03	10JUL03	2003	JUN
SHD-00100	Assembly Gantry	SHD-00100	17JUN03A	17JUN03A	17JUN03A	17JUN03A	17JUN03A	2003	JUN
SHD-00200	Disassemble Gantry	SHD-00200	10APR03	10APR03	10APR03	10APR03	10APR03	2003	JUN
SHD-00201	Receive And Haul PG&E Transformer	SHD-00201	14APR03*	14APR03*	14APR03	14APR03	14APR03	2003	JUN
SHD-00202	Receive And Haul PG&E Transformer	SHD-00202	16APR03*	16APR03*	16APR03	16APR03	16APR03	2003	JUN



METS

Sheet 4 of 4

MEC 3 Week Rolling Schedule

Rolling 3 Week Schedule



Start Date
FinTech Data
Data Data
Run Date

© Primavera Systems, Inc.

CONDITION OF CERTIFICATION PAL-4
PALEO MONTHLY SUMMARY REPORT

METCALF ENERGY CENTER
MONTHLY COMPLIANCE REPORT #19

X

Metcalf Energy Center Project
Paleontological Resource Monitoring and Mitigation Program

Monthly Report

Project Name: Metcalf Energy Center (MEC)

Project Number: 01-17

Clients: Calpine/CH2M Hill

Month: April 2003

Designated Paleontological Resource Specialist: Dr. Lanny H. Fisk, PhD, RG

Monthly Report for April 2003:

During the month of April 2003, PaleoResource Consultants (PRC) continued to work with Calpine Corporation through its environmental consultants, CH2M Hill, to mitigate potential adverse impacts to paleontological resources (fossils) which might result from construction of the Metcalf Energy Center (MEC) and associated linear facilities (including a natural gas pipeline, cooling-water supply line, and electrical transmission line) all located in south San Jose, California. In its Conditions of Certification (COCs) for MEC, the California Energy Commission (CEC) mandated that Calpine adopt Society of Vertebrate Paleontology (SVP) standard guidelines for the mitigation of construction-related adverse impacts on paleontological resources. In compliance with SVP standard guidelines, in September 2002 we recommended reducing paleontological monitoring at the MEC plant site to only spot checking specific deep excavations that would impact previously undisturbed sediment. The CEC approved this reduced monitoring plan.

During April 2003, the only deep excavation requiring monitoring consisted of a trench for the recirculated water line. This trench was approximately 400 feet long, 15 to 25 feet wide, and 13 feet deep. While monitoring trenching, PRC paleontological monitor Jaspal Saini discovered no megafossils. He did, however, collect several samples of silty clay judged likely to produce microfossils. These samples will be retained for possible later processing if either megafossils are discovered from these depths or these sediments are judged likely to provide significant information on paleoenvironments during late Pleistocene ("Ice Age") to early Holocene time.

Excavations for the natural-gas pipeline, cooling-water pipeline, and electrical transmission line are not scheduled to start until later. Full-time paleontological monitoring will be done at the beginning of excavations for each of these linear facilities. Then, in compliance with SVP standard guidelines, once one-half the excavations for each of these facilities is completed and if no significant fossils have been discovered, monitoring will be reduced to half-time, quarter-time, spot-checking, or suspended entirely. As startup of construction for these portions of the project nears, Calpine will contact PRC with specific dates.

Calpine Environmental Compliance Manager Kristen O'Kane continues to notify us regarding any scheduled excavations that would impact previously undisturbed sediments, asking if we think that paleontological monitoring is necessary. In most cases, since these excavations would only impact a few feet of undisturbed sediments and since paleontological resources have not previously been discovered at such shallow depths, we have responded that, in our professional opinion, no monitoring is necessary. However, PRC paleontological monitors are available and "on-call" to monitor or spot check any deeper excavations at the MEC plant site or other earth-moving activities related to the MEC project.

CONDITION OF CERTIFICATION SOCIO-1
LIST OF PLANNED PROCUREMENT

METCALF ENERGY CENTER
MONTHLY COMPLIANCE REPORT #19

SOCIO-1: List of planned procurement of materials or hiring outside the local regional area during the next two months.

Material/equipment	Manufacturer	Point of Origin	Reason
Sample panel for water treatment system	Out for bid		
Miscellaneous horizontal pumps	In bid evaluation		
Closed cooling water heat exchanger	In bid evaluation		
Continuous emissions monitoring system	In bid evaluation		
Oil and water separator	In bid evaluation		
Standby generator	In bid evaluation		
Fire pumps	In bid evaluation		
Shop fabricated tanks	In bid evaluation		

COMPLIANCE MATRIX

**METCALF ENERGY CENTER
MONTHLY COMPLIANCE REPORT #19**

METCALF ENERGY CENTER COMPLIANCE MATRIX

Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Submittal Date to CPM/CBO	Date approved by CPM/CBO	Status/Comments
START OF MOBILIZATION/ROUGH GRADING	11/14/2002						
START OF CONSTRUCTION	9/1/2002						
AQ-1	Minimize emissions of carbon monoxide (CO) and nitrogen oxides (NOx) from S-1 and S-3 GTs; and S-2 and S-4 HRSGs.	In Monthly Compliance Report indicate how this condition is being implemented.	Monthly Compliance Report				
AQ-2	Tune combustors of S-1 & S-3 GTs and S-2 and S-4 HRSGs duct burners to minimize emissions of CO and NOx.	In Monthly Compliance Report indicate how this condition is being implemented.	Monthly Compliance Report				
AQ-3	Install, adjust, and operate A-1 and A-2 SCR Systems to minimize emissions of CO and NOx from S-1 and S-3 GTs and S-2 and S-4 (HRSGs).	In Monthly Compliance Report indicate how this condition is being implemented.	Monthly Compliance Report				
AQ-4	With steady-state operation of A-1& A-2 SCR systems, shall comply with NOx and CO emission limitations.	In Monthly Compliance Report indicate how this condition is being implemented.	Monthly Compliance Report				
AQ-5	Submit plan to DPSD and CPM describing procedures to be followed during commissioning of GTs, HRSGs, and STCs.	At least 28 days prior to first firing of the gas turbines, submit a complete commissioning plan	28 days prior to first fire of Gas Turbines				
AQ-6	Demonstrate compliance with conditions 8-10 through the use of properly operated and maintained CEMS and data recorders.	In Monthly Compliance Report indicate how this condition is being implemented.	Monthly Compliance Report				
AQ-7	Install, calibrate, operate District approved CEMS monitors prior to first firing of GTs and HRSGs.	In Monthly Compliance Report indicate how this condition is being implemented.	Monthly Compliance Report				
AQ-8	Total no. of firing hours for S-1 GT and S-2 HRSG without abatement of A-1 SCR shall not exceed 300 hours during commissioning.	In the MCR indicate the cumulative number of firing without SCR. Submit a copy of the completion notice to CPM.	Monthly Compliance Report				
AQ-9	Total no. of firing hours for S-3 GT and S-4 HRSG without abatement of A-3 SCR shall not exceed 300 hrs during commissioning period.	In the MCR indicate the cumulative number of firing without SCR. Submit a copy of the completion notice to the CPM.	Monthly Compliance Report				
AQ-10	Total mass emissions of NOx, CO, POC, PM10, and SO2 emitted by the GTs and HRSGs during the commissioning period shall accrue towards the consecutive 12-month emission limitations.	In the MCR indicate the cumulative number of firing without SCR. Submit a copy of the completion notice to the CPM.	Monthly Compliance Report				
AQ-11	Combined daily emissions from GT's and HRSGs shall not exceed the following during the commissioning period: NOx = 4805; CO = 11,498; POC = 495; PM10 = 468; SO2= 42.	In the monthly compliance report indicate any violations of the emission limits	Monthly Compliance Report				
AQ-12	Submit to District and CPM a detail source test plan and conduct District and CEC approved source test using external CEMs to determine compliance with Condition 21.	20 working days before the execution of the source tests, submit to the District and CPM a detailed source test plan designed to satisfy the requirements of this condition.	20 days prior to source test per AQ-12				
AQ-12	Submit to District and CPM a detail source test plan and conduct District and CEC approved source test using external CEMs to determine compliance with Condition 21.	Source test results shall be submitted to the District and the CEC CPM within 30 days of the source testing date.	Within 30 days of source tests per AQ-12 complete				
AQ-12	Submit to District and CPM a detail source test plan and conduct District and CEC approved source test using external CEMs to determine compliance with Condition 21.	Notify the District and the CEC CPM.	Within seven (7) working days prior to the planned testing date				

NETGALF ENERGY CENTER - COMPLIANCE MATRIX

START OF MOBILIZATION/ROUGH GRADING		11/14/2002					
START OF CONSTRUCTION		9/1/2002					
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CEO	Date approved by CPM/CBO	Status/Comments
AQ-13	GT's (S-1, S-3) and HRSG (S-2, S-4) shall be fired exclusively on natural gas. (BACT for SO ₂ and PM10).	As part of the semiannual Air Quality Reports, indicate the date, time, and duration of any violation of this condition.	Semiannual Air Quality Reports				
AQ-14	Combined heat input rate of each power train (S-1 & S-2, S-3 & S-4) shall not exceed 7,124 MMBtu/hr (3-hour rolling average) (PSD for NO _x)	As part of the Air Quality monthly Reports, include information on the date and time when the hourly fuel consumption exceed this hourly limit.	Monthly Air Quality Reports				
AQ-15	Combined heat input rate of each power train (S-1 & S-2 and S-3 & S-4) shall not exceed 49,908 MMBtu/day (PSD for PM10)	As part of the Air Quality monthly Reports, include information on the date and time when the hourly fuel consumption exceed this daily limit.	Monthly Air Quality Reports				
AQ-16	Combined cumulative heat input rate of GTs (S-1, S-3) and HRSGs(S-2, S-4) shall not exceed 35,274,060 MMBtu/yr. (Offsets)	As part of the Air Quality monthly Reports, include information on the date and time when the annual cumulative fuel consumption exceed this annual limit.	Annual Air Quality Reports				
AQ-17	HRSGs (S-2, S-4) duct burners shall not be fired unless associated GTs (S-1, S-3) are in operation. (BACT for NO _x)	As part of the Air Quality Reports, include information on the date, time, and duration of any violation of this permit condition.	Monthly Air Quality Reports				
AQ-18	GT/HRSG (S-1/S-2) shall be abated by the A-1 SCR system whenever fuel is combusted in these units and the A-1 catalyst bed has reached min. operating temperature.	As part of the semiannual Air Quality Reports, provide information on any major problem in the operation of the Oxidizing Catalyst and Selective Catalytic Reduction Systems for the Gas Turbines and HRSGs.	Semiannual Air Quality Reports				
AQ-19	GT/HRSG (S-3/S-4) shall be abated by the A-2 SCR system whenever fuel is combusted in these units and the A-2 catalyst bed has reached min. operating temperature.	As part of the semiannual Air Quality Reports, provide info. on any major problem in the operation of the Oxidizing Catalyst and Selective Catalytic Reduction Systems for the Gas Turbines and HRSGs.	Semiannual Air Quality Reports				
AQ-20(a)	Emission requirements: Emission Point P-1 NO _x = 19.2 lbs/hr [0.00904 lbs/MMBTU (HHV) of nat. gas fired ; Emission Point P-2 NO _x = 19.2 lbs/hr [0.00904 lbs/MMBTU (HHV) of nat. gas fired].	As part of the semiannual Air Quality Reports, indicate the date, time, and duration of any violation. Include quantitative info. on the severity of the violation.	Semiannual Air Quality Reports				
AQ-20(b)	NO _x Emission concentration = 2.5 ppmvd (corrected to 15% O ₂), 1-hr average [Emission Point P-1, P-2] (BACT for NO _x).	Same as above	Semiannual Air Quality Reports				
AQ-20(c)	CO mass emission = 28,07 lbs/hr (at any 3-hour rolling avg.) [Emission Point P-1, P-2].	Same as above	Semiannual Air Quality Reports				
AQ-20(d)	When the heat input to a CT exceeds 1700 MMBTU/hr (HHV), the CO emission concentration shall not exceed 6.0 ppmvd on dry basis and the CO mass emission rate shall not exceed 0.0132 lbs/MMBTU at any 3-hr rolling average.	Same as above	Semiannual Air Quality Reports				
AQ-20(e)	Ammonia (NH ₃) emission concentration shall not exceed 5 ppmvd on dry basis, at any 3-hour rolling avg. Ammonia injection rate to A-1, A-2 to be verified through continuous recording of rate.	Same as above	Semiannual Air Quality Reports				

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CEO	Date approved by CPM/CBO
START OF MOBILIZATION/ROUGH GRADING	1/14/2002					
START OF CONSTRUCTION	9/1/2002					
AQ-20(f)	Precursor organic compounds (POC) mass emissions (as CH ₄) shall not exceed 2.7 lbs/hr or 0.00126 lbs/MMBTU of natural gas fired. (Emission points P-1, P-2).	Same as above	Semiannual Air Quality Reports			
AQ-20(g)	Sulfur dioxide (SO ₂) mass emissions at P-1 P-2 each shell not exceed 1.28 pounds per hour or 0.0006 lb /MM BTU of natural gas fired. (BACT)	Same as above	Semiannual Air Quality Reports			
AQ-20(h)	PM10 mass emission's at P-1 ,P-2 each shall not exceed 9 pounds per hour or 0.00452 lb PM10/MM BTU. Particulate matter (PM10) mass emissions at P-1, P-2 each shall not exceed 12 pounds per hour or 0.00555 lb PM10/MM BTU, when HRSG duct burners are in operation.	Same as above	Semiannual Air Quality Reports			
AQ-21	GT (S-1, S-3) Start-up and Shutdown emission rates	Same as above	Semiannual Air Quality Reports			
AQ-22	Not more than one GT (S-1, S-2) shall be in start-up mode at any one time.	In the monthly compliance report indicate how this condition is being implemented.	Monthly Compliance Report			
AQ-23	HRSGs and ducting shall be designed such that an oxidation catalyst shall be readily installed if deemed necessary by APCO to insure compliance with CO emissions rates.	In the semiannual compliance report indicate how this condition is being implemented	Semiannual Air Quality Reports			
AQ-24	Total combined emissions in lbs/day, from GTs and HRSGs (S-1, S-2, S-3, S-4). Including start-up and shutdown.	As part of the semiannual Air Quality Reports, indicate the date of any violation of this Condition including quantitative information on the severity of the violation.	Semiannual Air Quality Reports			
AQ-25	Cumulative combined emissions in tons/yr consecutive 12-month period, from GTs and HRSGs shall not exceed NO _x = 123.4 (offsets), SO ₂ =10.6 (cumulative increase), POC=28 (offsets), PM10=91.3 (offsets), CO=588, POC=28 (offsets), PM10=91.3 (offsets), SO ₂ =10.6 (cumulative increase).	As part of the semiannual Air Quality Reports, indicate the date of any violation of this Condition including quantitative information on the severity of the violation.	Semiannual Air Quality Reports			
AQ-26	Maximum projected combined annual toxic air contaminant emissions from GTs and HRSGs (S-1, S-2, S-3, S-4), (a) formaldehyde = 3.798 lbs/yr (b) Benzene = 480 lbs/yr (c) PAHs=22.8 lbs/yr	As part of the annual Air Quality Reports, indicate the date, duration, and severity of any violation including quantitative information on the severity of the violation.	Annual Air Quality Reports			
AQ-26	Perform health risk assessment using emission rates per BAAQMD approved procedures and submit risk analysis to District and CPM.	Within 60 days of source test date				
AQ-27 (e-d)	Demonstrate compliance with conditions 14-17, 20(a-d), 21, 22, 24(a), 24(b), 25(a), 25(b) by using continuous monitors during all operating hours for the following parameters.	As part of the annual Air Quality Reports, indicate the date of any violation of this Condition including quantitative information on the severity of the violation.	Annual Air Quality Reports			

METCALF ENERGY CENTER - COMPLIANCE MATRIX

Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date Submitted to CPW/CBO	Date approved by CPW/CBO	Status/Comments
START OF MOBILIZATION/ROUGH GRADING	1/14/2002						
START OF CONSTRUCTION	9/1/2002						
AQ-27(e)	Use parameters in condition 27(a-d) and District approved methods to calculate the following: (e) Heat input rate for S-1 & S-2 combined, and S-3 & S-4 Condition including quantitative information on 4 combined (f) Corrected NOx and CO concentrations and mass emissions at each exhaust point (P-1, P-2).	As part of the annual Air Quality Reports, indicate the date of any violation of this condition including quantitative information on the severity of the violation.	Annual Air Quality Reports				
AQ-27(g-i)	For each source, source grouping, or exhaust point record parameters at least once every 15 minutes and calculate and record for the following. Refer to AQ-27 for further details.	As part of the annual Air Quality Reports, indicate the date of any violation of this condition including quantitative information on the severity of the violation.	Annual Air Quality Reports				
AQ-28(a-b)	Demonstrate compliance with conditions 20, 21, 24, 25 by calculating and recording on a daily basis POCl, PM10, and SO2 mass emissions fine PM10 and SO2 from each power train.	As part of the monthly Air Quality Reports, the owner/operator shall indicate the date of any violation including quantitative information on the severity of the violation.	Monthly Air Quality Reports				
AQ-29	Calculate and record on annual basis the max. projected annual emissions of formaldehyde, benzene, Specified Poly-Aromatic Hydrocarbons (PAH's).	As part of the annual Air Quality Reports, indicate the date of any violation of this condition including quantitative information on the severity of the violation.	Annual Air Quality Reports				
AQ-30	Within 60 days of startup, conduct a District-approved source test on exhaust points P-1 or P-2 to determine the corrected ammonia concentration to determine compliance with condition 20(e).	Source test protocols shall be submitted at least 90 days before startup. Approval of the source test protocols and the source test reports shall be deemed as verification for this condition.	Within 60 days before startup				
AQ-30	Conduct a District-approved source test on exhaust points P-1 or P-2 to determine the corrected ammonia concentration to determine compliance with condition 20(e).	Conduct test within 60 days of startup	Within 60 days of startup				
AQ-30	Conduct a District-approved source test on exhaust points P-1 or P-2 to determine the corrected ammonia concentration to determine compliance with condition 20(e).	Submit source test results to the District and to the CEC CPM.	Within 30 days of the test				
AQ-30	Conduct a District-approved source test on exhaust points P-1 or P-2 to determine the corrected ammonia concentration to determine compliance with condition 20(e).	Notify the District and the CEC CPM.	Within seven working days before the execution of the source tests.				
AQ-31	Conduct a District-approved source test on exhaust points P-1 and P-2 while each GT and HRSG are operating at max load.	Submit source test protocols. Approval of the source test protocols and the source test reports shall be deemed as verification for this condition.	90 days Before startup				
AQ-31	Conduct a District-approved source test on exhaust points P-1 and P-2 while each GT and HRSG are operating at max load.	Conduct test within 60 days of startup and on annual basis thereafter.	Within 60 days startup				
AQ-31	Conduct a District-approved source test on exhaust points P-1 and P-2 while each GT and HRSG are operating at max load.	Notify the District and the CEC CPM.	Within seven (7) working days before the execution of the source tests				
AQ-31	Conduct a District-approved source test on exhaust points P-1 and P-2 while each GT and HRSG are operating at max load.	Submit source test results to the District and to the CEC CPM.	Within 30 days of the date of the test				

METCALF ENERGY CENTER - COMPLIANCE MATRIX

START OF MOBILIZATION/ROUGH GRADING		1/14/2002					
START OF CONSTRUCTION		9/1/2002					
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO	Status/Comments
AQ-32	Obtain approval for all source test procedures from District Source Test Section and CPM prior to conducting tests.	Provide a copy of source test protocol.	90 days before startup				
AQ-32	Obtain approval for all source test procedures from District Source Test Section and CPM prior to conducting tests.	Notify the District's Source Test Section and the CEC CPM in writing of the Source Test Protocols and projected test dates at least 7 days prior to the testing date(s).	7 days prior to testing date(s)				
AQ-33	Conduct a District-approved source test within 60 days of startup on each exhaust point (P-1, P-2). Also test the GTs at minimum load.	Notify the District and the CEC CPM at least 7 working days before the owner/operator plans to conduct source testing as required by this condition.	Execution of the Source Tests				
AQ-33	Conduct a District-approved source test within 60 days of startup on each exhaust point (P-1, P-2). Also test the GTs at minimum load.	Conduct test.	Within 60 days of startup and on biennial basis thereafter				
AQ-33	Conduct a District-approved source test within 60 days of startup on each exhaust point (P-1, P-2). Also test the GTs at minimum load.	Source test results shall be submitted to the District and the CEC CPM.	Within thirty (30) days of conducting the test				
AQ-34	Submit all reports as required by District Rules or Regulations and in accordance with all procedures and time limits.	Submit a copy of test protocols at least 90 days before startup.	90 days before startup				
AQ-35	Maintain records and reports on site for a minimum of 5 years.	During site inspection, make all records and reports available to the District, California Air Resources Board, and CEC staffs.	AQ Inspection per AQ-35				
AQ-36	Notify District and CPM of any violations of these permit conditions.	Submission of these notifications as required by this condition is the verification of these permit conditions.	Violation of Permit Conditions				
AQ-37	Stack height of emission points (P-1, P-2) shall be at least 145 feet above grade at the stack base. (GT/HRCG stack height).	Submit the drawings for review and approval.	45 days prior to the release to the manufacturer				
AQ-38	Provide adequate stack sampling ports and platforms to enable the performance of source testing.	120 days before initial operation, submit to the BAAQMD and the CEC CPM a plan for the installation of stack sampling ports and platforms.	120 days before Initial Operation				
AQ-38	Provide adequate stack sampling ports and platforms to enable the performance of source testing.	Within 60 days of receipt of the plant, the BAAQMD will advise the Owner/Operator and the CPM of the acceptability of the plan.	2/1/04				
AQ-39	Contact the BAAQMD Technical Services division regarding requirements for the continuous monitors, sampling ports, platforms, and source tests.	Contact the BAAQMD Technical Services division.	Approval by BAAQMD and CPM after submittal				
AQ-39	Contact the BAAQMD Technical Services division regarding requirements for the continuous monitors, sampling ports, platforms, and source tests.	Within 180 days of issuance of Authority to Construct					
AQ-40	Demonstrate valid ERCS in the amount of 212.75 tons/year of NOx and 28 tons/year of CO or equivalent as defined by District Regs 2-2-302.1 and 2-2-302.2.	Notify the CEC CPM at least seven (7) working days before these contacts are made.	7 days before contacts are made				
AQ-40	Demonstrate valid ERCS in the amount of 212.75 tons/year of NOx and 28 tons/year of CO or equivalent as defined by District Regs 2-2-302.1 and 2-2-302.2.	Within 30 days after issuance of Authority to Construct, provide a copy of the ATC to the CEC CPM for review.	Within 30 days after issuance of Authority to Construct				
AQ-40	Demonstrate valid ERCS in the amount of 212.75 tons/year of NOx and 28 tons/year of CO or equivalent as defined by District Regs 2-2-302.1 and 2-2-302.2.	3/15/02	2/2/02	N/A	N/A	Complete	

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
START OF MOBILIZATION/ROUGH GRADING	11/14/2002					
START OF CONSTRUCTION	9/11/2002					
AQ-41	Provide to District valid ERC banking certificates in the amount of 212.75 ton/yr of Nox and 28 tons/yr of POCS or equivalent.	At least 30 days prior to the start of construction, submit a copy of the required offset or ERCS certificates to the CPM.	30 days prior to start of construction	8/2/02	7/26/02	N/A
AQ-42	Submit an application to the BAAQMD for a major facility review permit within 12 months of the issuance of the PSD permit for the MEC.	Submit an application to BAAQMD major facility review permit. Notify the CEC CPM of the submittal of this application.	Within 12 months of issuance of PSD Permit		1/9/02	N/A
AQ-42	Submit an application to the BAAQMD for a major facility review permit within 12 months of the issuance of the PSD permit for the MEC.	Submit to the CPM a copy of the Federal (Title V) Operating Permit.	30 days after permit issued			Expect to receive permit in June 2003.
AQ-43	Submit an application to the District for a Title IV operating permit at least 24 months prior to the initial operation of any GTs or HRSGs.	Submit to the CPM a copy of the application for Title IV operating permit.	24 months before initial operation			
AQ-44	Comply with the continuous emission monitoring requirements of 40 CFR Part 75.	Submit to the CPM a plan on how the measurements and recordings required by this condition will be performed.	60 days before initial Operation			
AQ-45	Take monthly samples of natural gas combusted at MEC and analyze these samples for sulfur content using District-approved lab methods.	Maintain on site the records of all the guarantees received from its natural gas suppliers indicating that the fuel delivered to MEC complies with the 40 CFR Part 80 Subpart G.	On-site Compliance Inspections			
AQ-46	Cooling towers shall be properly maintained to minimize drift losses.	Submit a performance guarantee letter from the cooling tower manufacturer.	30 days prior to installation of Cooling Tower per AQ-46			
AQ-47a	Perform visual inspection of cooling tower drift eliminators once per calendar year and repair or replace any drift eliminators which are broken or missing.	As part of the monthly Air Quality Reports, indicate the date of any violation of this Condition.	Monthly Air Quality Reports			
AQ-47b	Have cooling tower representative inspect the cooling tower drift eliminators and certify installation was performed in a satisfactory manner.	Have cooling tower representative inspect the cooling tower drift eliminators and certify installation.	Initial Operation			
AQ-47c	Perform an initial performance source test to determine the PM10 emission rate from the cooling tower to verify compliance with the vendor-guaranteed drift rate.	As part of the monthly Air Quality Reports, indicate the date of any violation of this Condition.	Initial Operation			
AQ-48	Implement a CPM approved Fugitive Dust Control Plan during construction.	Submit the plan to the CEC CPM for review and approval.	Within 60 days of initial operation of the cooling tower			
AQ-48	Implement a CPM approved Fugitive Dust Control Plan during construction.	Maintain daily records to document the specific actions taken pursuant to the plan. Summary of activities in MCR.	Monthly Compliance Report			
AQ-49	During construction owner shall:	The project owner shall maintain a daily log during the construction phase of the project. The logs shall be made available to the CEC CPM upon request.	Start of Construction			
AQ-50	Identify the source of the fugitive dust and implement one or more of the appropriate control measures specified in Table 3.	Maintain a daily log recording the dates and times that measures have been implemented and make them available to the CEC CPM upon request.	Start of Construction			

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submission Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
START OF MOBILIZATION/ROUGH GRADING	11/14/2002					
START OF CONSTRUCTION	9/1/2002					
AQ-51	Provide the District with valid ERC certificates for PM10 for the amount of 29.21 tons per year and for VOC for the amount of 124.2 tons per year from the sources noted in Condition 51.	At least 30 days prior to the start of construction, the project owner must submit a copy of the required ERC certificates to the CPM and the District.	30 days prior to start of construction	8/2/02	7/26/02	N/A
AQ-52	The project owner shall mitigate, to the extent practical, construction related emission impacts from off-road, diesel fired construction equip. Details of Plans shown in Condition AQ-52.	Submit to the CPM for approval the qualifications of the CMH at least 45 days prior to due date for diesel construction equipment.	45 days prior to rough grading	11/30/01	8/27/01	9/27/01
AQ-52	The project owner shall mitigate, to the extent practical, construction related emission impacts from off-road, diesel fired construction equip. Details of Plans shown in Condition AQ-52.	Submit Construction Equipment Mitigation Plan 30 days prior to rough grading or construction of linear facilities.	30 days prior to rough grading	12/15/01	9/7/01	9/27/01
AQ-52	The project owner shall mitigate, to the extent practical, construction related emission impacts from off-road, diesel fired construction equip. Details of Plans shown in Condition AQ-52.	Submit Report of Change to the CPM no later than 10 working days after use of equipment on site.	10 days after use of equipment on site			
AQ-53	The heat input to the fire pump diesel engine shall not exceed 2111 MM BTU totalled over any consecutive twelve month period.	As part of the monthly Air Quality Reports, indicate the date of any violation of this condition including quantitative information on the severity of the violation.	Monthly Air Quality Reports			
AQ-54	The total hours of operation of the emergency generator shall not exceed 200 hours per calendar year, plus an additional 100 hours per calendar year for the purposes of maintenance and testing.	As part of the monthly Air Quality Reports, indicate the date of any violation of this condition including quantitative information on the severity of the violation.	Monthly Air Quality Reports			
AQ-55	Install an oxidation catalyst to control VOC emissions.	As part of its final design plans, specifications, and drawings, submit to the District and the CPM for review and approval the final selection and design details of combustion equipment, including emission systems.	Submittal of final design plans			In progress
Public Health-1	Perform a visual inspection of the cooling tower drift eliminators once per calendar year. Prior to initial operation of the project, have the cooling tower vendor's field representative inspect the cooling tower drift eliminator and certify that the installation was performed in a satisfactory manner.	Prior to initial operation of the project, have the cooling tower vendor's field representative inspect the cooling tower drift eliminator and certify that the installation was performed in a satisfactory manner.	Prior to initial operation			
Public Health-1	Perform a visual inspection of the cooling tower drift eliminators once per calendar year. Prior to initial operation of the project, have the cooling tower vendor's field representative inspect the cooling tower drift eliminator and certify that the installation was performed in a satisfactory manner.	The project owner shall include the results of the Annual Compliance Report				

METCALF ENERGY CENTER - COMPLIANCE MATRIX

START OF MOBILIZATION/ROUGH GRADING		START OF CONSTRUCTION					
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO	Status/Comments
WORKER SAFETY 1	Project Construction Safety and Health Program, containing the following: A Construction Injury and Illness Prevention Program, A Construction Fire Protection and Prevention Plan, A Personal Protective Equipment Program.	Submit to the CPM a copy of the Project Construction Safety and Health Program and the Personal Protective Equipment Program, with a copy of the cover letter transmittal of the programs to Cal/OSHA.	30 days prior to start of construction	8/2/02	9/27/01 (Bechtel)	2/1/02 (Bechtel)	Resubmitted for Mortenson, OSHA Consultation completed 2/21/02. Submitted OSHA approval of Mortenson Plan 3/12/02.
WORKER SAFETY 1	Project Construction Safety and Health Program, containing the following: A Construction Injury and Illness Prevention Program, A Construction Fire Protection and Prevention Plan, A Personal Protective Equipment Program.	Submit to the CPM a letter from the San Jose Fire Department stating that they have reviewed and accepted the Construction Fire Protection and Prevention Plan.	30 days prior to start of construction	8/2/02	7/31/01	2/1/02	Responses to Fire Depts. comments submitted 4/9/02.
WORKER SAFETY 2	Project Operation Safety and Health Plan containing the following: Operation Injury and Illness Prevention Plan, Emergency Action Plan, Operation Fire Protection Plan, Personal Protective Equipment Program.	The Plan shall be submitted to the Cal/OSHA Consultation Service, for review and comment concerning compliance of the program with all applicable Safety Orders	Start of Operation				
WORKER SAFETY 2	Project Operation Safety and Health Plan containing the following: Operation Injury and Illness Prevention Plan, Emergency Action Plan, Operation Fire Protection Plan, Personal Protective Equipment Program.	Submit to the CPM a copy of the final version of the Project Operation Safety & Health Program with a copy of the cover letter to Cal/OSHA's Consultation Service, and San Jose Fire Department comments stating that they have reviewed and accepted the specified elements of the Plan.	30 days prior to start of operation				
WORKER SAFETY 3	Reach an agreement with the San Jose Fire Dept on the amount of fees and timing of payment they will provide to cover project-specific impacts associated with worker safety and fire protection.	Provide the CPM with a copy of an agreement with the City of San Jose Fire Department or shall provide an interim plan to address impacts until a permanent agreement can be reached.	60 days prior to ground disturbance	11/15/01	7/2/01	2/1/02	Complete
WORKER SAFETY 3	Reach an agreement with the San Jose Fire Dept on the amount of fees and timing of payment they will provide to cover project-specific impacts associated with worker safety and fire protection.	If an agreement cannot be reached at least 60 days prior to construction, the project owner will inform the CPM and propose a plan to mitigate impacts on fire services.	60 days prior to ground disturbance	11/15/01	7/2/01	2/1/02	Complete
TLSN-1	The project owner shall construct the proposed transmission line according to the requirements of Section 2700 through 2974 of the California Code of Regulations and PG&E's EMF-reduction measures.	Submit to the CPM a letter affirming that the transmission line will be constructed according to the requirements.	30 days prior to start of construction of Transmission Line				
TLSN-2	Identify and correct any complaints of interference with radio and TV signals from operation of line and facilities.	All reports of line-related complaints shall be summarized and included for 5 years in the Annual Compliance Report to the CPM	Annual Compliance Report				
TLSN-3	Engage a qualified consultant to measure the strengths of the line electric and magnetic fields in the project owner's 240-foot section before and after the 230 kV line is energized.	File copies of the pre-and post energization measurements with CPM. These measurements shall be completed within 6 months of the start of the operations.	60 days after completion of measurements				

METCALF ENERGY CENTER • COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CP/M/CBO	Status / Comments
START OF MOBILIZATION/ROUGH GRADING	1/14/2002					
START OF CONSTRUCTION	9/1/2002					
TLSN-4	Ensure that the transmission line right-of-way is kept free of combustible material.	Provide a summary of inspection results and any fire prevention activities carried out along the ROW in the annual compliance report.	Annual Compliance Report			
TLSN-5	Ensure the grounding of any ungrounded permanent metallic objects within the right-of-way of the overhead section.	Transmit to the CPM a letter confirming compliance with this Condition	30 days prior to energization of transmission line			
HAZ-1	Do not use any hazardous material in reportable quantities, not listed in Attachment 1 or in greater quantities or advances than those identified unless approved in advance by Santa Clara County and the CPM.	Provide to the CPM and Santa Clara County, Inc the Annual Compliance Report, a list of hazardous materials contained at the facility in reportable quantities.	Annual Compliance Report			
HAZ-2	Provide a Risk Management Plan to Santa Clara County and the CPM for review at the time the plans are first submitted to the EPA.	Provide a Risk Management Plan to Santa Clara County and the CPM for review at the time the plans are first submitted to the U.S. EPA.	Provide a Risk Management Plan to Santa Clara County and the CPM for review at the time the plans are first submitted to the U.S. EPA.	60 days prior to delivery of Aqueous Ammonia		
HAZ-2	Provide a Risk Management Plan to Santa Clara County and the CPM for review at the time the plans are first submitted to the EPA.	Include all recommendations of Santa Clara County and the CPM in the final document. At least 60 days prior to the delivery of aqueous ammonia to the facility, provide the final approved plans listed above to the CPM.	Include all recommendations of Santa Clara County and the CPM in the final document. At least 60 days prior to the delivery of aqueous ammonia to the facility, provide the final approved plans listed above to the CPM.	60 days prior to delivery of Aqueous Ammonia		
HAZ-3	Develop and implement a safety management plan for delivery of ammonia.	Provide a safety management plan as described above to the CPM for review and approval.	Provide a safety management plan as described above to the CPM for review and approval.	60 days prior to delivery of Aqueous Ammonia		
HAZ-4	The aqueous ammonia storage facility shall be designed to either the ASME Pressure Vessel Code and ANSI K61.6 or to API 620.	Submit final design drawings and specifications for the ammonia storage tank and secondary containment basin to the County of Santa Clara and the City of San Jose for review and comment, and to the CPM for review and approval.	Submit final design drawings and specifications for the ammonia storage tank and secondary containment basin to the County of Santa Clara and the City of San Jose for review and comment, and to the CPM for review and approval.	60 days prior to delivery of Aqueous Ammonia		
HAZ-5	Provide a covered secondary containment basin to passively contain any spill during the delivery of aqueous ammonia to the storage facility.	Provide detailed design drawings and specifications for the secondary containment basin to the County of Santa Clara and the City of San Jose for review and comment, and to the CPM for review and approval.	Provide detailed design drawings and specifications for the secondary containment basin to the County of Santa Clara and the City of San Jose for review and comment, and to the CPM for review and approval.	60 days prior to construction of ammonia secondary containment		
HAZ-6	The project owner shall require that the gas pipeline undergo a complete design review and detailed inspection every 30 years and each 5 years thereafter.	Provide a detailed plan to accomplish a full and comprehensive pipeline design review in the future to the CPM for review and approval.	Provide a detailed plan to accomplish a full and comprehensive pipeline design review in the event of an earthquake to the CPM for review and approval.	30 days prior to initial gas flow in pipeline		
HAZ-7	Prepare and implement a pipeline maintenance plan.	Provide a detailed plan to accomplish a full and comprehensive pipeline inspection in the event of an earthquake to the CPM for review and approval.	Provide a detailed plan to accomplish a full and comprehensive pipeline inspection in the event of an earthquake to the CPM for review and approval.	30 days prior to initial gas flow in pipeline		

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Status/Comments
START OF MOBILIZATION/ROUGH GRADING	11/14/2002					
START OF CONSTRUCTION	9/1/2002					
HAZ-8	The project owner shall direct all vendors delivering any hazardous material to the site to use only the route approved by the CPM.	At least sixty (60) days prior to receipt of any hazardous materials on site, the project owner shall submit copies of the required transportation route limitation to the County of Santa Clara and City of San Jose for review and comment, and to the CPM for review and approval.	60 days prior to delivery of hazardous materials			
HAZ-9	The natural gas pipeline shall be designed to meet CPUC General Order 112-D and 58 A standards, or any successor standards, and will be designed to meet Class III service.	Submit design and operation specifications to the CPM for review and approval.	Prior to initial gas flow in pipeline			
HAZ-10	Design and operate the facility to ensure that no fuels or lubricants are permanently or temporarily stored within 100 feet of the sulfuric acid tank.	Provide copies of the facility design drawings showing the location of the sulfuric acid storage tank and the route for transport.	60 days prior to delivery of Sulfuric Acid			
HAZ-11	The project owner shall direct all vendors delivering aqueous ammonia to the site to use only transport vehicles which meet or exceed the specifications of the DOT MC-307 tanker trucks.	Submit copies of the notification letter to supply vendors indicating the transport vehicle specifications to the CPM for review and approval.	60 days prior to receipt of aqueous ammonia on site			
HAZ-12	Design, construct, and operate the project in conformance with all applicable laws, ordinances, regulations, and standards pertaining to the transport, storage, and handling of hazardous materials.	Submit final design drawings and specifications for all hazardous material storage areas and equipment to Santa Clara County and the City of San Jose for review and comment, and to the CPM for review and approval.	60 days prior to delivery of Hazardous Materials			
WASTE-1	Obtain a Hazardous Waste Generator Identification Number from the Department of Toxic Substances Control prior to generating any hazardous waste.	Keep its copy of the identification number on file at the project site and notify the CPM via the monthly compliance report of its receipt.	Notify via Monthly Compliance Report	12/14/02	12/14/02	N/A
WASTE-1	The project owner shall obtain a Hazardous Waste Generator Identification Number from the Department of Toxic Substances Control prior to generating any hazardous waste. (Operation).	Keep copies of the ID number and permit on file and notify the CPM via the monthly compliance report of their receipt - (operation).	Notify via Monthly Compliance Report			Complete
WASTE-2	Upon becoming aware of any impending waste management-related enforcement action, notify the CPM of any such enforcement action.	Notify the CPM in writing within 10 days of becoming aware of an impending enforcement action.	Within 10 days of becoming aware of an impending enforcement action.			
WASTE-3	Prepare and submit to the CPM a waste management plan for all wastes generated during construction and operation of the facility.	Submit the construction waste management plan to the CPM for review.	60 days prior to start of construction	7/3/02	6/12/01, 2/24/03	7/27/01, 3/7/03
WASTE-3	Prepare and submit to the CPM a waste management plan for all wastes generated during construction and operation of the facility.	Submit any required revisions within 30 days of notification by the CPM (or mutually agreed upon date).	Revise within 30 days of notification by CPM			

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Status/Comments
WASTE-3	Prepare and submit to the CPM a waste management plan for all wastes generated during construction and operation of the facility.	The operation waste management plan shall be submitted no less than 60 days prior to the start of project operation.	60 days prior to start of operation			
WASTE-3	Prepare and submit to the CPM a waste management plan for all wastes generated during construction and operation of the facility.	The project owner shall submit any required revisions within 30 days of notification by the CPM (or mutually agreed upon date).	Revise within 30 days of notification by CPM			
WASTE-3	Prepare and submit to the CPM a waste management plan for all wastes generated during construction and operation of the facility.	In the Annual Compliance Reports, document the actual waste management methods used during the year compared to planned management methods.	Annual Compliance Report			
WASTE-4	Have a registered PE available for consultation during soil excavation and grading activities.	Submit the qualifications and experience of the Registered Professional Engineer or Geologist to the CPM for approval.	30 days prior to ground disturbing activity	12/15/01	8/1/2001, 3/12/03	8/16/01 Complete
WASTE-5	If potentially contaminated soil is unearthed during excavation the environmental professional shall inspect the site.	Notify the CPM in writing within 5 days of any reports filed by the environmental professional.	Within 5 days of filing reports			
WASTE-5	If potentially contaminated soil is unearthed during excavation the environmental professional shall inspect the site.	If significant remediation may be required, contact representatives of the Santa Clara County and Dept of Toxic Substances Control. Notify the CPM in writing within 5 days of any reports filed.	Within 5 days of filing reports			
WASTE-6	Obtain a Hazardous Material Clearance Form from the Santa Clara County Hazardous Materials Compliance Division.	Provide an approved copy of the Hazardous Material Clearance Form to the CPM.	Prior to the start of construction	3/20/02	3/20/02	Complete
WASTE-7	The project owner shall perform additional limited investigations to fully characterize the site.	Prior to the start of construction, submit analytical results of the additional sampling to the CPM as a ESA Addendum.	Prior to the start of construction	2/21/02	2/21/02	N/A Complete
WASTE-8	All site debris shall be removed from the site after owner has control of the site.	Notify the CPM in writing within ten days of removal of site debris.	Within 10 days after removal of site debris	9/10/01	9/10/01	10/2/01 Complete
LAND-1	At such time as a connection to a trail network can be made, install and maintain the portion of the planned trail that would cross the site.	In the Monthly Compliance Reports provide updates on trail developments in the area around the site.	Monthly Compliance Report			
LAND-1	At such time as a connection to a trail network can be made, install and maintain the portion of the planned trail that would cross the site.	Submit to the City of San Jose Departments of Planning and Public Works for review of the trail design and maintenance plan.	Start of Construction of Trail			
LAND-1	At such time as a connection to a trail network can be made, install and maintain the portion of the planned trail that would cross the site.	Prior to the start of a trail that the NEC trail could be connected to, submit designs and the maintenance plan to the CPM.	180 days prior to start of construction of trail			
LAND-1	At such time as a connection to a trail network can be made, install and maintain the portion of the planned trail that would cross the site.	Notify the CPM that the trail segment has been completed and is ready for inspection.	Within 7 days after completion of trail segment			
LAND-1	At such time as a connection to a trail network can be made, install and maintain the portion of the planned trail that would cross the site.	In the Annual Compliance Reports provide updates on trail developments in the area around the site.	Annual Compliance Report			

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
START OF MOBILIZATION/ROUGH GRADING	1/14/2002					
START OF CONSTRUCTION	9/1/2002					
LAND-2	Landscape the parking areas consistent with the "Orchard Planting" Guidelines of the North Coyote Valley Campus Industrial Area Master Development Plan.	Submit to the City of San Jose for review and comment and to the CPM for approval a revised landscape plan.	30 days prior to start of construction	8/2/02	8/7/02	Submitted
LAND-2	The project owner shall landscape the parking areas consistent with the "Orchard Planting" Guidelines of the North Coyote Valley Campus Industrial Area Master Development Plan.	Notify the CPM that the work has been completed and is ready for inspection.	7 days after completion of landscaping			
LAND-3	The project owner shall design and construct the project to satisfy the setback requirements	Submit the final design plans to the CPM for approval.	60 days prior to start of construction	7/30/02	1/2/10/01 3/12/02	Complete
LAND-3	The project owner shall design and construct the project to satisfy the setback requirements	Notify the CPM that the boundaries are ready for inspection.	Prior to construction of specified facilities and structures	7/23/02	10/2/02 (cooling tower)	Complete for cooling tower foundation only.
LAND-3	The project owner shall design and construct the project to satisfy the setback requirements	Submit the final design plans to the San Jose review and comment.	60 days prior to start of construction	7/30/02	9/20/01 3/12/02	N/A (City of San Jose)
LAND-3	The project owner shall design and construct the project to satisfy the setback requirements	Notify the CPM that the facilities and structures are completed and are ready for inspection.	7 days after completion of specified facilities and structures			
LAND-4	Ensure that any project directional signs, identity signs, and gatehouses comply with the "Entry Identification" guidelines.	Submit to the CPM for approval a site plan that demonstrates that the project complies with the "Entry Identification" guidelines.	90 days prior to commercial operation			
LAND-4	Ensure that any project directional signs, identity signs, and gatehouses comply with the "Entry Identification" guidelines.	Submit to the City of San Jose for review and comment a site plan.	90 days prior to commercial operation			
LAND-4	Ensure that any project directional signs, identity signs, and gatehouses comply with the "Entry Identification" guidelines.	Notify the CPM that these requirements have been satisfied and are ready for inspection.	Commercial Operation			
LAND-5	Immediately south of the MEC site a restrictive covenant agreement.	Acquire from the property owners (Passantino) a recorded copy of the Agreement.	90 days prior to start of construction	6/3/02	6/12/01	Complete
LAND-5	Immediately south of the MEC site a restrictive covenant agreement.	Submit a landscape plan to the CPM for review and approval and the City of San Jose for review and comment.	Within sixty (60) days of sale of the Passantino property			
LAND-5	Immediately south of the MEC site a restrictive covenant agreement.	Notify the CPM that the landscaping has been completed and is ready for inspection.	7 days after completion of landscaping			
LAND-6	Ensure the protection of soil while using agricultural land as a construction laydown and parking area.	Notify the CPM that the protective measures stated above will be applied prior to the delivery of any construction materials.	30 days prior to delivery of construction materials	9/15/01	9/19/01	Complete
LAND-6	Ensure the protection of soil while using agricultural land as a construction laydown and parking area.	Submit photographic evidence of the application.	7 days after completion of protective measures	3/14/02	3/14/02 5/10/2002	7/8/02
LAND-6	Ensure the protection of soil while using agricultural land as a construction laydown and parking area.	Notify the CPM that the agricultural field used as the laydown area has been tilled and shall submit photographs of the tilled field.	30 days prior to commercial operation			

METCALF ENERGY CENTER - COMPLIANCE MATRIX

START OF MOBILIZATION/ROUGH GRADING		START OF CONSTRUCTION		Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO	Status/Comments
Date	Description	Date	Description								
9/14/2002		9/16/2002		LAND-7	Ensure that any additional construction laydown areas needed along all pipeline routes are located within existing paved or gravel areas.	Submit a detailed map showing the location of any planned laydown areas along the pipeline routes and photographs of the areas.	60 days prior to construction of pipelines				
				LAND-8	Obtain all necessary licenses and easement rights from Santa Clara County to route the natural gas supply pipeline through the Coyote Creek Parkway.	Submit the plan to the Santa Clara County Parks and Recreation Department for review and obtain licenses and easements.	Prior to submittal to CPM				Option agreement signed 6/4/02. Will exercise option 45 days prior to construction of gas pipeline.
					Obtain all necessary licenses and easement rights from Santa Clara County to route the natural gas supply pipeline through the Coyote Creek Parkway.	Submit to the CPM a copy of all licenses and easements secured from Santa Clara County and submit to the CPM a plan that describes how construction activities will be timed to avoid permitted park events.	30 days prior to construction of gas pipeline				
				LAND-8	Obtain all necessary licenses and easement rights from Santa Clara County to route the natural gas supply pipeline through the Coyote Creek Parkway.	Submit to the CPM an update of planned construction dates for the following week and a schedule of planned park events.	Weekly gas pipeline report				
				LAND-9	Route the water supply and wastewater discharge pipelines through open agricultural areas to avoid the direct loss of orchard trees.	Submit to the CPM for review and approval a site plan that shows the precise alignment of the water supply and waste water pipelines in relation to existing orchard trees.	60 days prior to construction of pipelines				
				LAND-9	Route the water supply and wastewater discharge pipelines through open agricultural areas to avoid the direct loss of orchard trees.	Notify the CPM that stakes have been installed and the route is ready for inspection.	7 days prior to ground disturbing activities related to pipeline construction				
				LAND-10	During pipeline construction, stockpile excavated topsoil separate from subsoil in agricultural areas.	Submit a description of the procedure to minimize alteration of original soil stratigraphy.	30 days prior to ground disturbing activities related to pipeline construction				
				LAND-10	During pipeline construction, stockpile excavated topsoil separate from subsoil in agricultural areas.	Notify the CPM of the schedule for trenching.	7 days prior to trenching for pipeline				
				LAND-10	During pipeline construction, stockpile excavated topsoil separate from subsoil in agricultural areas.	Submit photographs to the CPM that demonstrates that the topsoil has been kept separate from the subsoil.	7 days after start of trenching for pipeline				
				LAND-10	During pipeline construction, stockpile excavated topsoil separate from subsoil in agricultural areas.	Notify the CPM of the schedule for backfilling.	7 days prior to backfilling trenches				
				LAND-11	The heat recovery steam generator stacks shall be limited to 145 feet above finished grade.	Submit the final design specifications to the CPM for review and approval.	60 days prior to start of construction			1/17/01	Complete
				TRANS-1	Comply with Caltrans and Santa Clara County limitation on vehicle sizes and weights.	Provide the number of any oversize and overweight transportation permits received during that reporting period.	Monthly Compliance Report				On-going
				TRANS-2	Comply with Caltrans and County limitations for encroachment into public rights-of-way and shall obtain necessary encroachment permits.	Submit copies of any encroachment permits received during that reporting period in the Monthly Compliance Report.	Monthly Compliance Report			5/14/02	Caltrans encroachment permit for gas pipeline submitted in April Report.
				TRANS-3	Ensure that all federal and state regulations for the transport of hazardous materials are observed, transport of hazardous materials are observed.	Copies of all permits and licenses acquired concerning the transport of hazardous substances.	Monthly Compliance Report				

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
TRANS-4	The project owner shall enter into a Crossing Agreement with UPRR.	If the permanent crossing warning equipment is not in place , submit a traffic plan for the crossing to UPRR for review.	60 days prior to site preparation	11/15/01	8/16/01	8/16/01 Complete
TRANS-4	The project owner shall enter into a Crossing Agreement with UPRR.	Submit the executed Crossing Agreement to the CPM for approval.	60 days prior to site preparation	11/15/01	8/16/01	8/16/01 Complete
TRANS-4	Install railroad grade crossing warning equipment at the RR crossing for Blanchard Road.	Inform the CPM when the final grade crossing warning equipment is ready for inspection.	Installation of final grade crossing equipment	3/4/02	3/4/02	Submitted
TRANS-5	Consult with Santa Clara Co., San Jose, and Caltrans & prepare a Const. Traffic Control Plan and implementation program.	Provide to Santa Clara County, City of San Jose County and Caltrans, and to the CPM, a copy of construction traffic control plan and implementation program.	30 days prior to start of site preparation	10/21/01	10/22/01 12/9/02	10/24/01 Complete
TRANS-6	Repair roadways to original or as near original condition as possible. Refer to TRANS 6 for further details	Photograph, videotape, or digitally record Monterey Rd. between Metcalf Rd. and Blanchard Rd. Provide the CPM, Santa Clara County and Caltrans with a copy of these Images.	Prior to start of site preparation	11/15/01	8/9/01	8/13/01 Complete
TRANS-6	Repair roadways to original or as near original condition as possible. Refer to TRANS 6 for further details	Photograph, videotape, or digitally record Monterey Rd. between Metcalf Rd. and Blanchard Rd. Provide the CPM, Santa Clara County and Caltrans with a copy of these Images.	Start of ground disturbing activities related to pipeline construction			
TRANS-6	Following completion of construction of the power plant and all related facilities, the project owner shall repair roadways to original or as near original conditions as possible.	Notify Caltrans about the schedule for project construction.	60 days prior to site preparation	11/15/01	8/9/01	8/13/01 Complete
TRANS-6	Following completion of construction of the power plant and all related facilities, the project owner shall repair roadways to original or as near original conditions as possible.	Meet with the CPM, Santa Clara County, the City of San Jose and Caltrans to determine actions necessary for repair of roadways.	30 days after completion of project construction			
TRANS-7	Prepare and submit a parking and staging plan for all phases of project construction.	Submit the parking and staging plan to the City of San Jose and Santa Clara County for review and comment, and to the CPM for approval.	60 days prior to start of site preparation	10/2/01	10/2/01 12/9/02	10/24/01 Complete
TRANS-8	Prior to the start of commercial operation of MEC, the project owner shall complete a two-lane secondary access connection.	Contact the City regarding the status of the off-site portion of the Santa Teresa Boulevard connection and inform the CPM.	12/31/03			
TRANS-8	Prior to the start of commercial operation of MEC, the project owner shall complete a two-lane secondary access connection.	Notify the City and CPM that the portion of the Santa Teresa Boulevard connection constructed by MEC is ready for inspection.	60 days prior to commercial operation			
NOISE-1	Notify all residents and business entities within one mile of the site of the start of construction and operation of the project.	Notify residents and establish/post telephone number	15 days prior to start of rough grading	12/30/01	10/3/01	N/A Complete
NOISE-1	Notify all residents and business entities within one mile of the site of the start of construction and operation of the project.	A statement signed by the project manager stating that the above notification has been performed.	Monthly Construction Report Following the Start of Rough Grading	2/14/02	2/14/02	N/A Complete

NETCRAFT ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CEO	Date approved by CPM/CBO
START OF MOBILIZATION/ROUGH GRADING	11/14/2002					
START OF CONSTRUCTION	9/1/2002					
NOISE-1	Notify all residents and business entities within one mile of the site of the start of construction and operation of the project.	An statement signed attesting that notification was send to all residents within a 1-mile radius of the project.	15 days prior to the commencement of steam blow activity			
NOISE-1	Notify all residents and business entities within one mile of the site of the start of construction and operation of the project.	Transmit a statement signed by the project manager attesting that a notification was send to all residents within a one-mile radius of the project.	Monthly Construction Report Following the Steam Blow activity			
NOISE-2	Throughout the construction and operation, document, investigate, evaluate and attempt to resolve all project related noise complaints.	File a copy of the Noise Complaint Resolution Form with City of San Jose and with the CPM documenting the resolution of the complaint.	30 days after receiving a noise complaint			
NOISE-3	Submit to the CPM for review a Noise Control Program.	Submit to the CPM the above referenced program.	30 days prior to Rough Grading	12/15/01	6/12/01	7/27/01
NOISE-4	If a traditional high-pressure steam blow process is employed, equip steam blow pliping with a temporary silencer.	Submit to the CPM drawings describing the temporary steam blow silencer, and a description of the steam blow schedule.	15 days prior to first Steam Blow			
NOISE-5	Conduct a 25-hour Community Noise Survey when first achieving an output of 80 percent of rated capacity.	Submit a summary report of the survey to City of San Jose and the CPM.	Within 30 days after completing survey			
NOISE-5	Conduct a 25-hour Community Noise Survey when first achieving an output of 80 percent of rated capacity.	Submit to the CPM a summary report of a new noise survey.	Within 30 days of completion of installation of these measures			
NOISE-6	The project owner shall conduct an occupational noise survey to identify the noise hazardous areas in the facility.	The survey shall be conducted within thirty (30) days after the facility is operating at an output of 80% of rated capacity or greater.	Thirty days after the facility is operating at an output of 80% of rated capacity or greater.			
NOISE-6	The project owner shall conduct an occupational noise survey to identify the noise hazardous areas in the facility.	Submit the noise survey report to the CPM. The project owner shall also submit the report to OSHA upon request.	Within 30 days after completing the survey			
NOISE-7	Construction shall be restricted to the hours of: 7 a.m. to 7 p.m. on weekdays and from 8 a.m. to 6 p.m. on weekends and holidays.	Transmit a statement certifying that the above construction will be observed throughout the construction of the project.	First Monthly Compliance Report	11/15/02	11/15/02	N/A
NOISE-7	The project owner shall implement typical noise source reduction measures such as silencers and acoustical enclosures for HDD.	Submit a plan for approval to the CPM to implement noise reduction measures for HDD.	30 days prior to commencing HDD.			
VIS-1	Treat the project structures, buildings, and tanks visible to the public in a non-reflective color.	Submit proposed plan to the CPM for review and approval.	60 days prior to ordering first equipment that is color treated		8/1/02	8/1/02
VIS-1	Treat the project structures, buildings, and tanks visible to the public in a non-reflective color.	If the CPM notifies the project owner that any revisions of the plan are needed, shall submit to the CPM a revised plan.	Within 30 days of receiving notification			
VIS-1	Treat the project structures, buildings, and tanks visible to the public in a non-reflective color.	Notify the CPM that all structures treated during manufacture and all structures treated in the field are ready for inspection.	Not less than thirty (30) days prior to the start of commercial operation			
VIS-1	Treat the project structures, buildings, and tanks visible to the public in a non-reflective color.	This project owner shall provide a status report regarding treatment maintenance in the Annual Compliance Report.	Annual Compliance Report			

WETCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CEO	Date approved by CPM/CBO
VIS-2	Any fencing for the project shall be non-reflective.	Submit the specifications to the CPM for review and approval.	At least 30 days prior to ordering the non-reflective fencing			Status/Comments
VIS-2	Any fencing for the project shall be non-reflective.	If the CPM notifies the project owner that revisions of the submittal are needed the project owner shall prepare and submit a revised submittal.	Within 30 days of receiving notification			
VIS-2	Any fencing for the project shall be non-reflective.	Notify the CPM that the fencing is ready for inspection.	Within 7 days after completing installation of the fencing			
VIS-3	Design and install all lighting such that light bulbs and reflectors are not visible from public viewing areas.	Notify the CPM that the lighting is ready for inspection.	Within seven (7) days of completing exterior lighting installation			
VIS-3	Design and install all lighting such that light bulbs and reflectors are not visible from public viewing areas.	Provide the lighting plan to the CPM for review and approval and to the City of San Jose for review and comment.	Ninety (90) days before ordering the exterior lighting.	5/3/03	In progress	
VIS-3	Design and install all lighting such that light bulbs and reflectors are not visible from public viewing areas.	If the CPM notifies the project owner that any revisions of the plan are needed, shall submit to the CPM a revised plan.	Within 30 days of receiving notification			
VIS-4	Restore any and all areas that are disturbed during the construction or operation of any portions of the proposed underground utilities.	If the CPM notifies the project owner that revisions of the submittal are needed, shall prepare and submit to the CPM a revised submittal.	Within 30 days of receiving notification			
VIS-4	Restore any and all areas that are disturbed during the construction or operation of any portions of the proposed underground utilities.	Notify the CPM after completing the surface restoration that it is ready for inspection.	Within seven days after completing the surface restoration			
VIS-4	Restore any and all areas that are disturbed during the construction or operation of any portions of the proposed underground utilities.	Submit the plan to the CPM for review and approval and to the City of San Jose or Santa Clara County for review and comment.	All least sixty days prior to beginning implementation of the surface restoration			
Temporary Aesthetic Screen						
VIS-5	Implement the installation of temporary aesthetic screening along the south and east sides and any of the eastern portion of the north side of the construction laydown area. Install long-term aesthetic screening along the west side of Monterey Road.	Submit the proposed temporary and long-term aesthetic screening plans to the City of San Jose for review and comment.	Ninety (90) days prior to the start of use of the construction laydown area	7/27/01	7/27/01	N/A (City of San Jose)
VIS-5	Implement the installation of temporary aesthetic screening along the south and east sides and any of the eastern portion of the north side of the construction laydown area. Install long-term aesthetic screening along the west side of Monterey Road.	Submit the proposed temporary and long-term aesthetic screening plans to the CPM for review and approval.	Ninety (90) days prior to the start of use of the construction laydown area	7/27/01	7/27/01	2/15/02 (Aesthetic screen)
VIS-5	Implement the installation of temporary aesthetic screening along the south and east sides and any of the eastern portion of the north side of the construction laydown area. Install long-term aesthetic screening along the west side of Monterey Road.	Submit any required revisions within 30 days of notification by the CPM.	Within 30 days of receiving notification	2/12/02	2/12/02	2/15/02

NETCAFE ENERGY CENTER: COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Status/Comments
START OF MOBILIZATION/ROUGH GRADING	11/14/2002					
START OF CONSTRUCTION	9/11/2002					
VIS-5	Implement the installation of temporary aesthetic screening along the south and east sides and any of the eastern portion of the north side of the construction laydown area. Install long-term aesthetic screening along the west side of Monterey Road.	The temporary and long-term aesthetic screening installations are ready for inspection.	Within seven days after implementing the proposed plan	7/6/2002 (temporary screen)	7/1/2002 (temporary screen)	Submitted for temporary.
VIS-5	Immediately upon completion of construction of the project, the temporary aesthetic screening shall be removed and the construction laydown area shall be revegetated and restored to its original condition.	Submit proposed plans to the City of San Jose for review and comment and CPM for review and approval.	At least ninety (90) days before intended removal of the temporary aesthetic screen			
VIS-5	Immediately upon completion of construction of the project, the temporary aesthetic screening shall be removed and the construction laydown area shall be revegetated and restored to its original condition.	Submit any required revisions within 30 days of notification by the CPM.	Within 30 days of notification			
VIS-5	Immediately upon completion of construction of the project, the temporary aesthetic screening shall be removed and the construction laydown area shall be revegetated and restored to its original condition.	Notify the CPM that the temporary aesthetic screening removal is ready for inspection.	Within seven days after implementing the proposed plan			
Long-term screen (Monterey Road landscaping)						
VIS-5	Implement the installation of temporary aesthetic screening along the south and east sides and any of the eastern portion of the north side of the construction laydown area. Install long-term aesthetic screening along the west side of Monterey Road.	Submit the proposed temporary and long-term aesthetic screening plans to the City of San Jose for review and comment.	Ninety (90) days prior to the start of use of the construction laydown area	7/27/01	7/27/01	N/A (City of San Jose)
VIS-5	Implement the installation of temporary aesthetic screening along the south and east sides and any of the eastern portion of the north side of the construction laydown area. Install long-term aesthetic screening along the west side of Monterey Road.	Submit the proposed temporary and long-term aesthetic screening plans to the CPM for review and approval.	Ninety (90) days prior to the start of use of the construction laydown area	7/27/01	7/27/2001, 12/18/01	Revised Monterey Rd. plan submitted 12/18/01. Submitted City of San Jose comments to CEC on 9/26/02.
VIS-5	Implement the installation of temporary aesthetic screening along the south and east sides and any of the eastern portion of the north side of the construction laydown area. Install long-term aesthetic screening along the west side of Monterey Road.	Submit any required revisions within 30 days of notification by the CPM.	Within 30 days of receiving notification			City of San Jose comments being incorporated. Will submit in May 2003.
VIS-5	The project owner shall comply with the requirements of Policy 12 of the General Development Plan Standards of the Master Development Plan and Guidelines for the North Coyote Valley Campus Industrial Area re: screening of truck loading docks and storage and service areas.	Submit the proposed temporary and long-term aesthetic screening plans to the City of San Jose for review and comment and the CPM for review and approval.	At least sixty (60) days prior to installing the screening			

METCALF ENERGY CENTER - COMPLIANCE MATRIX

Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO	Status/Comments
START OF MOBILIZATION/ROUGH GRADING	1/14/2002						
START OF CONSTRUCTION	9/1/2002						
VIS-6	The project owner shall comply with the requirements of Policy 12 of the General Development Plan Standards of the Master Development Plan and Guidelines for the North Coyote Valley Campus Industrial Area re: screening of truck loading docks and storage and service areas.	Submit any required revisions	Within 30 days of notification				
VIS-6	The project owner shall comply with the requirements of Policy 12 of the General Development Plan Standards of the Master Development Plan and Guidelines for the North Coyote Valley Campus Industrial Area re: screening of truck loading docks and storage and service areas.	The project owner shall notify the CPM when ready for inspection	Within seven days after completing installation of the screening				
VIS-7	Install aesthetic landscape screening along a portion of Coyote Ranch Road.	Submit the proposed aesthetic landscape screening plan to the City of San Jose and County of Santa Clara Parks and Recreation Department for review and comment.	90 days prior to start of construction	6/3/02	6/1/201		Submitted / In progress. Working with County.
VIS-7	Install aesthetic landscape screening along a portion of Coyote Ranch Road.	Submit the proposed aesthetic landscape screening plan to the CPM for review and approval.	90 days prior to start of construction	6/3/02	6/1/201		Submitted / In progress. Working with County.
VIS-7	Install aesthetic landscape screening along a portion of Coyote Ranch Road.	Submit any required revisions	Within thirty (30) days of notification by the CPM.				
VIS-7	Install aesthetic landscape screening along a portion of Coyote Ranch Road.	Notify the CPM in writing that the aesthetic landscape screening installation is ready for inspection.	Within seven (7) days after completing the implementation of the proposed plan				
VIS-7	The gas metering station east of Highway 101 shall be designed in a manner that helps visually screen it from views from Highway 101 and integrate it with its surroundings.	Submit detailed design specifications for the gas metering station to the County of Santa Clara Parks and Recreation Department for review and comment.	At least sixty (60) days before the beginning of construction of the gas metering station				
VIS-8	The gas metering station east of Highway 101 shall be designed in a manner that helps visually screen it from views from Highway 101 and integrate it with its surroundings.	Submit detailed design specifications for the gas metering station to the CPM for review and approval.	At least sixty (60) days before the beginning of construction of the gas metering station				
VIS-8	The gas metering station east of Highway 101 shall be designed in a manner that helps visually screen it from views from Highway 101 and integrate it with its surroundings.	Submit any required revisions.	Required revision within 30 days of notification by CPM.				
VIS-8	The gas metering station east of Highway 101 shall be designed in a manner that helps visually screen it from views from Highway 101 and integrate it with its surroundings.	Notify the CPM that the aesthetic treatment and landscape screening installation is ready for inspection.	Within seven (7) days after implementing the proposed plan				
VIS-8	The power plant shall be designed in a manner that reduces its appearance as an industrial facility and helps visually integrate it with its surroundings.	Submit the proposed architectural design treatment plan to the City of San Jose for review and comment.	At least sixty (60) days prior to the start of architectural treatment				Complete
VIS-9							

METCALF ENERGY CENTER: COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date to CPM/CBO	Date submitted to CPM/CBO	Status/Comments
START OF MOBILIZATION/ROUGH GRADING	1/14/2002					
START OF CONSTRUCTION	9/1/2002					
VIS-9	The power plant shall be designed in a manner that reduces its appearance as an industrial facility and helps visually integrate it with its surroundings.	Submit the proposed architectural design treatment plan to the CPM for review and approval.	At least sixty (60) days prior to the start of architectural treatment		10/2/02	Submitted. Comments received 10/31/02.
VIS-9	The power plant shall be designed in a manner that reduces its appearance as an industrial facility and helps visually integrate it with its surroundings.	Shall submit any required revisions.	Within thirty (30) days of notification by the CPM	11/30/02	11/25/02	Submitted. Received comments 2/10/03.
VIS-9	The power plant shall be designed in a manner that reduces its appearance as an industrial facility and helps visually integrate it with its surroundings.	Notify the CPM in writing that all structures are ready for inspection.	Thirty (30) days prior to the start of commercial operation			
VIS-10	The power plant shall be designed and operated to minimize visible plumes.	Submit the proposed plume abatement plan to the City of San Jose for review and comment.	At least sixty (60) days prior to the start of construction	7/3/02	9/6/01	N/A Complete
VIS-10	The power plant shall be designed and operated to minimize visible plumes.	Submit the proposed plume abatement plan to the CPM for review and approval.	At least sixty (60) days prior to the start of construction	7/3/02	9/5/01	Submitted. CEC comments received.
VIS-10	The power plant shall be designed and operated to minimize visible plumes.	The project owner shall submit any required revisions.	Within 30 days of notification by the CPM.	9/24/02, 11/6/02, 2/21/03		Submitted revised plan. CEC comments received 4/25/03.
VIS-11	Trail development along the Fisher Creek corridor adjacent to the power plant site.	The project owner shall submit to the City of San Jose and the County of Santa Clara Parks and Recreation Department for review and comment a specific plan.	Start of construction of the trail between Blanchard Road and railroad tracks			
VIS-11	Trail development along the Fisher Creek corridor adjacent to the power plant site.	Submit to the CPM for review and approval a specific plan describing its landscape plan.	Start of construction of the trail between Blanchard Road and railroad tracks			
VIS-11	Trail development along the Fisher Creek corridor adjacent to the power plant site.	Submit any required revisions.	Within 30 days of notification by the CPM.			
VIS-11	Contact the owners of property along Blanchard Road and develop a plan to screen views of the project from each property if so desired by a property owner.	Notify the CPM, City of San Jose and County of Santa Clara Parks and Recreation Department that the planting installation is ready for inspection.	Within 30 days after completion of planting installation			
VIS-12	Contact the owners of property along Blanchard Road and develop a plan to screen views of the project from each property if so desired by a property owner.	Provide to the CPM a report on the landscaping/screening plan.	15 days prior to project construction	8/17/02	7/30/02	9/24/02 Complete
CUL-1	Name and statement of qualifications of its designated cultural resource specialist.	Notify the CPM when any measures are ready for inspection.	Measures are ready for inspection			
CUL-1	Name and statement of qualifications of its designated cultural resource specialist.	Submit name and qualifications.	90 days prior to site preparation	10/16/01	7/26/01	7/27/01 Complete
CUL-1	Name and statement of qualifications of its designated cultural resource specialist.	Confirm in writing to the CPM that the approved designated cultural resource specialist will be available at the start of construction.	At least 10 days but no more than 30 days prior to the start of earth disturbing activities	12/15/01	7/26/01	9/25/01 1/22/02 Complete
CUL-1	Name and statement of qualifications of its designated cultural resource specialist.	Obtain CPM approval of the replacement Cultural Specialist.	10 days prior to termination of Cultural Specialist			

METCALF ENERGY CENTER - COMPLIANCE MATRIX

Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO	Status/Comments
START OF MOBILIZATION/ROUGH GRADING	1/14/2002						
START OF CONSTRUCTION	9/1/2002						
CUL-2	Provide the designated cultural resource specialist and the CPM with maps and drawings showing the footprint of the power plant and all linear facilities.	Provide the designated cultural resource specialist and the CPM with the maps and drawings.	75 days prior to the start of earth disturbing activities	10/31/01	9/20/01	11/1/01	Complete
CUL-3	CRS shall prepare, and the owner shall submit to the CPM for review and written approval, a CRMMP.	Submit the Cultural Resources Monitoring and Mitigation Plan.	60 days prior to project site preparation	11/15/01	8/12/01	12/15/01	Complete
CUL-4	WEAT for cultural resources	Submit to the CPM for review and written approval, the proposed WEAT.	60 days prior to the start of construction on the project	11/15/01	9/20/01	12/5/01	Complete
CUL-5	WEAT to all project managers, all construction supervisors, and those workers who operate ground disturbing equipment.	Provide the CPM with documentation that WEAT was administered.	7 days after start of construction	1/21/02	9/29/01	1/28/02	Complete
CUL-5	WEAT to all project managers, all construction supervisors, and those workers who operate ground disturbing equipment.	Provide the CPM with documentation that WEAT was administered.	Monthly Compliance Report	"			In progress
CUL-6	CRS or monitor shall have the authority to halt or redirect construction if previously unknown cultural resource sites or materials are encountered.	Provide the CPM with a letter confirming CUL-6.	30 days prior to site preparation	12/15/01	7/20/01	8/6/01	Complete
CUL-6	CRS or monitor shall have the authority to halt or redirect construction if previously unknown cultural resource sites or materials are encountered.	For any cultural resource encountered, the project owner shall notify the CPM within 24 hours.	Within 24 hours of cultural resource discovery				
CUL-7	Provide the designated cultural resource specialist with a current schedule of anticipated project activity in the following month and a map.	Provide the CPM with a copy of each weekly schedule of the construction activities.	10 days prior to site preparation	1/4/02	9/28/01	1/14/02	Complete
CUL-7	Provide the designated cultural resource specialist with a current schedule of anticipated project activity in the following month and a map.	Provide the CPM with a copy of each weekly schedule of the construction activities.	Monthly Compliance Report				In progress
CUL-8	CRS/monitor keep a daily log of any resource finds and the progress or status of the resource monitoring, mitigation, preparation, identification, and analytical work being conducted for the project.	Copies of the weekly summary reports shall be submitted to the CPM in the Monthly Compliance Report.	Monthly Compliance Report				In progress
CUL-9	Except in the areas specified in CUL-3(f), the designated cultural resource specialist or delegated monitor(s) shall be present at times the specialist deems appropriate.	Copies of the weekly summary reports prepared by the designated cultural resources specialist regarding project-related cultural resource monitoring.					
CUL-10	Obtain ground disturbance or cultural resource excavation permits from Caltrans and/or the U.S. Army Corps of Engineers.	Submit a copy of any permit addressing data recovery excavation.	Monthly Compliance Report				
CUL-10	Obtain ground disturbance or cultural resource excavation permits from Caltrans and/or the U.S. Army Corps of Engineers.	Provide written documentation to the permitting agency of compliance with any mitigation measures.	Completion of mitigation activity				

METCALF ENERGY CENTER • COMPLIANCE MATRIX

Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CEO	Date approved by CPM/CBO	Status/Comments
START OF MOBILIZATION/ROUGH GRADING	1/14/2002						
START OF CONSTRUCTION	9/1/2002						
CUL-11	Ensure that the CRS performs the recovery, etc. of all cultural resource materials encountered and collected.	Maintain in its compliance files, copies of signed contracts or agreements with the museum(s), university (ies), or other appropriate research specialists.	Periodic Audit by the CPM				
CUL-12	Prepare a scope of work for Cultural Resources Report following completion of data recovery and site mitigation work.	Submit it to the CPM for review and written approval.	7 days after completion of the proposed scope of work,				
CUL-12	Prepare a scope of work for Cultural Resources Report following completion of data recovery and site mitigation work.	Ensure that the designated cultural resources specialist prepares the proposed scope of work.	Completion of Data Recovery per CUL-12				
CUL-13	Prepare a scope of work for Cultural Resources Report as described in CUL-13. Submit the report to the CPM for review and written approval.	Ensure that the designated cultural resource specialist completes the Cultural Resources Report.	Within 90 days following completion of the data recovery and site mitigation work				
CUL-13	Prepare a Cultural Resources Report as described in CUL-13.	Submit the Cultural Resources Report to the CPM for review and written approval.	Within seven (7) days after completion of the report				
CUL-14	Submit an original, an original-quality copy, and a computer disc copy, of the CPM-approved Cultural Resource Report to the public repository to receive the recovered date and materials for curation, with copies to the State Historic Preservation Officer (SHPO), the appropriate regional archaeological Information center(s), and a person employed by the City of San Jose who is authorized to receive confidential cultural resources information.	Provide to the CPM documentation that the report has been sent to the public repository receiving the recovered data and materials for curation, the SHPO and the appropriate archaeological Information center(s), and the City of San Jose, to a person authorized to receive confidential cultural resources information.	Within thirty (30) days after receiving approval of the Cultural Resources Report				
CUL-15	Ensure that all cultural resource materials, maps, and data collected during data recovery and mitigation for the project are delivered to a public repository.	Ensure that all recovered cultural resource materials are delivered for curation. For the life of the project, maintain copies of signed contracts or agreements with the public repository.	Within thirty (30) days after providing the CPM-approved Cultural Resource Report to the entities				
CUL-16	Consult with Ohlone/Costanoan Native American tribal representatives to develop an agreement(s) for qualified monitor(s).	Provide the CPM with a copy of all finalized agreements for Native American (Ohlone/Costanoan) monitor(s).	30 days prior to site preparation	12/15/01	8/15/01	Complete	Plan submitted 3/4/03
CUL-17	Presence/absence testing shall be conducted in the vicinity of the natural gas pipeline route or PG&E metering station.	Reports addressing the results of the presence/absence testing shall be included in the Monthly Compliance Report.	Monthly Compliance Report				
CUL-18	Comply with Cul-1, Cul-4 and Cul-5. Comply with Cul-2 and Cul-3 for the entire project. CRS shall examine the area of initial project site mobilization.	Provide the CPM with information authored by the CRS identifying the area of initial site mobilization.	7 days prior to site mobilization	1/7/02	10/2/01	Complete	
CUL-19	If the potable water wells and associated pipelines are to be located anywhere but in an area defined as part of the proposed project then a cultural resource assessment shall be required.	Submit the results of the records search and the results of the survey.	90 days prior to start of construction of wells				
SOCIO-1	The project owner and its contractors and subcontractors shall recruit employees and procure materials and supplies within the City of San Jose and Santa Clara County.	Submit copies of contractor, subcontractor, vendor solicitations and guidelines stating hiring and procurement requirements and procedures.	60 days prior to site preparation	11/15/01	7/20/01	8/8/01	Complete

METCALF ENERGY CENTER - COMPLIANCE MATRIX

Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO	Status/Comments
START OF MOBILIZATION/ROUGH GRADING	1/14/2002						
START OF CONSTRUCTION	9/1/2002						
SOCIO-1	The project owner and its contractors and subcontractors shall recruit employees and procure materials and supplies within the City of San Jose and Santa Clara County.	Notify the CPM the reasons for any planned procurement of materials or hiring outside the local regional area that will occur during the next two months.	Monthly Compliance Report				In progress
SOCIO-2	Pay the one-time statutory school facility development fee as required at the time of filing.	Pay the statutory school facility development fee as required at the time of filing.	At Time of Filing				
SOCIO-2	Pay the one-time statutory school facility development fee as required at the time of filing.	Provide proof of payment of the statutory development fee.	Monthly Compliance Report after fees are paid				
BIO-1	Construction site and/or ancillary facilities preparation shall not begin until an approved Designated Biologist is available to be on site.	Submit name, qualifications, address and telephone number of the individual selected.	60 days prior to start of ground disturbance	11/15/01	7/23/01	7/27/01	Complete
BIO-1	Construction site and/or ancillary facilities preparation shall not begin until an approved Designated Biologist is available to be on site.	If the CPM determines the proposed Designated Biologist to be unacceptable, submit another individual's name and qualifications for consideration.	Notification by CPM that proposed Designated Biologist is unacceptable				
BIO-2	The CPM approved Designated Biologist shall perform the following during project construction and operation: see BIO-2 for detailed tasks.	Biologist shall maintain written records of the tasks described.	Monthly Compliance Report				In progress
BIO-2	The CPM approved Designated Biologist shall perform the following during project construction and operation: see BIO-2 for detailed tasks.	Submit record summaries in the Annual Compliance Report	Annual Compliance Report				
BIO-3	Act on the advice of the Designated Biologist to ensure conformance with the Biological Resources Conditions of Certification and shall halt all construction activities, if necessary.	Notify the CPM by telephone of the circumstances and actions being taken to resolve the problem or the non-compliance with a condition.	Within 2 working days of notification of non-compliance				
BIO-4	Submit to the CPM for review and approval a copy of the final BRMMP and shall implement the measures identified in the plan.	Provide the CPM with the final version of the BRMMP.	45 days prior to start of ground disturbance	1/13/01	7/23/01	8/30/01	Complete
BIO-4	Submit to the CPM for review and approval a copy of the final BRMMP and shall implement the measures identified in the plan.	Provide to the CPM for review and approval a written report identifying which items of the BRMMP have been completed.	30 days after construction complete				
BIO-5	Develop the riparian corridor planting plan for inclusion into the BRMMP.	Provide to the CPM for review and approval the riparian restoration plan.	45 days prior to ground disturbance	1/13/01	7/23/01	10/17/01	Complete
BIO-6	Develop WEAT for biological resources.	State in the Monthly Compliance Report the number of persons who have completed the training in the prior month.	Monthly Compliance Report				In progress
BIO-6	Acquire a SAA from CDFG.	Provide copies of the WEAT and the name and qualifications of the person(s) administering the program.	60 days prior to start of rough grading	1/15/01	9/20/01	12/5/2001 3/13/02 (video)	Complete
BIO-7	Provide a final copy of the U.S. Fish and Wildlife Service Biological Opinion.	Submit to the CPM a copy of the final CDFG Streambed Alteration Agreement.	30 days prior to the start of any streambed alteration disturbances		9/30/02 (outfall)		In progress
BIO-8	Provide a final copy of the USFWS Biological Opinion.	Submit to the CPM a copy of the USFWS Biological Opinion.	45 days prior to the start of ground disturbance	1/13/01	7/23/01	7/27/01	Complete

METCALF ENERGY CENTER: COMPLIANCE MATRIX

START OF MOBILIZATION/ROUGH GRADING		1/14/2002	Action required		Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO	Status Comments
Condition No.	Requirements & Task Summary		Event					
BIO-9	Provide a final copy of the Nationwide No. 7 permit.	Submit to the CPM a copy of the Nationwide No. 7 Permit.	30 days prior to the start of any streambed alteration	8/1/02	8/14/02			Submitted
BIO-10	Provide 176 acres of land on Tulare Hill and 15 acres of land on Coyote Ridge, the name of the entity that will be managing the land in perpetuity, and the endowment funds.	Provide to the CPM for approval, the name of the management entity, written verification that the compensation lands have been purchased and written verification that the appropriate endowment fund has been received.	Within one week of commencing ground disturbance activities	1/21/02	2/26/02			Submitted
BIO-11	Develop a suitable final habitat management and monitoring plan for lands purchased on Tulare Hill and Coyote Ridge.	Provide the CPM with the final approved version of the management plan. Incorporate into BRMIMP.	60 days prior to start of ground disturbance	11/15/01	6/25/01	7/9/01	7/9/01	Complete
BIO-12	Incorporate into closure plan measures that address the local biological resources and incorporate into the BRMIMP.	Address all biological resource-related issues associated with facility closure.	12 months prior to facility closure					
BIO-13	Comply with BIO-1, BIO-2, and BIO-10 and complete BIO-6. Examine the area and ensure no special status species are present.	Provide the CPM with the location, date(s), method(s), and results of the pre-examination.	10 days prior to mobilization	1/4/02	9/28/01	10/17/01	10/17/01	Complete
SOIL & WATER-1	Disinfected, tertiary-treated, recycled water will be used at the Metcalf Energy Center for cooling purposes and other appropriate non-potable uses.	Provide CPM with a copy of a valid Recycled Water use permit from the City of San Jose.	Construction complete					
SOIL & WATER-1	Potable water may be used for cooling purposes only in the event that SBWIR recycled water service is interrupted.	Provide a record of water consumption for the MEC.	Monthly Compliance Report					In progress
SOIL & WATER-1	Potable water may be used for cooling purposes only in the event that SBWIR recycled water service is interrupted.	Provide a record of water consumption for the MEC.	Annual Compliance Report					
SOIL & WATER-1	Provide a firm commitment for its construction water supply.	Submit commitment to CPM.	30 days prior to the start of construction	8/2/02	12/5/01	12/28/01	12/28/01	Complete
SOIL & WATER-2	Storm Water Pollution Prevention Plan (SWPPP) for construction.	Submit a copy of the SWPPP to the CPM for review and approval.	30 days prior to start of ground disturbance	12/15/01	8/31/01	10/18/01	10/18/01	Complete for project site
SOIL & WATER-2	Storm Water Pollution Prevention Plan (SWPPP) for construction.	Approval of the plan by the CPM must be received prior to the initiation of any clearing, grading or excavation activities.	Start of ground disturbance	1/14/02	8/31/01	10/18/01	10/18/01	Complete for project site
SOIL & WATER-3	Final erosion control and revegetation plan that addresses all project elements.	Approval of the final plan by the CPM must be received prior to the initiation of any clearing, grading or excavation activities.	Start of ground disturbance	12/15/01	8/31/01	10/18/01	10/18/01	Complete for project site
SOIL & WATER-4	Obtain SCVWD approval for all activities within floodways or upon or within the banks of watercourses.	Obtain SCVWD approval.	30 days prior to ground disturbance	12/15/01	8/31/01	10/18/01	10/18/01	Complete for project site
SOIL & WATER-5	Develop and implement a Storm Water Pollution Prevention Plan (SWPPP) as required under the General Industrial Activity Storm Water Permit.	Develop and Implement a Storm Water Pollution Prevention Plan (SWPPP).	60 days prior to commercial operation	8/31/01, 1/2/02, 2/12/02	12/25/02	Complete (5 permits to date)		
SOIL & WATER-5	Develop and Implement a Storm Water Pollution Prevention Plan (SWPPP) as required under the General Industrial Activity Storm Water Permit.	Submit a copy of the Storm Water Pollution Prevention Plan (SWPPP).	2 weeks prior to commercial operation					
SOIL & WATER-6	Industrial Discharge Permit from the City of San Jose Environmental Services Division.	Provide the CPM a copy of a valid Industrial Discharge Permit.	45 days prior to commercial operation					

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
START OF MOBILIZATION/ROUGH GRADING	1/14/2002	9/11/2002				
SOIL & WATER-7	Obtain a Section 401 Certification from the San Francisco RWQCB. Shall only use groundwater for MEC process and domestic requirements and for back-up cooling make up from either the two wells and pipelines.	Submit to the CEC CPM a copy of the Section 401 Certification. Submit the following to the Energy Commission all construction specifications, a copy of the wells well permit(s) and registration numbers, any construction or operation conditions.	30 days prior to the start of any streambed alteration activities. 30 days prior to construction of wells	5/1/03	12/02/02 (outfall)	Complete for outfall
SOIL & WATER-8	Shall only use groundwater for MEC process and domestic requirements and for back-up cooling make up from either the two wells and pipelines.	Notify the CPM that the wells have been installed and submit the results of the pump and aquifer tests conducted.	30 days after completion of wells			
SOIL & WATER-9	Design, construct, and fully fund the portion of the SBWR reclaimed water supply pipeline dedicated to, and essential for, the operation of MEC.	Submit evidence demonstrating that the project owner has negotiated or is negotiating one or more agreements to provide SBWR reclaimed water.	30 days prior to start of construction	8/2/02	8/24/01	10/1/01 Complete
GEO-1	Assign to the project an engineering geologist(s).	Submit to the CPM the name(s) and license number(s) of the certified engineering geologist(s).	30 days prior to start of construction	8/2/02	7/27/2001 1/28/02	N/A Complete
GEO-1	Assign to the project an engineering geologist(s).	Notify CPM of replacement of Engineering Geologist.	Replacement of Engineering Geologist	1/28/02	1/28/02	2/6/02 Complete
GEO-2	The assigned engineering geologist(s) shall carry out the duties required by the 1998 CBC.	Submit Grading Permit Application	Application for Grading Permit per GEO-2	1/1/02	1/1/02	4/4/02 Complete
GEO-2	The assigned engineering geologist(s) shall carry out the duties required by the 1998 CBC.	Submit a signed statement to the CPM stating that the Engineering Geology Report has been submitted to the CBC.	15 days after submittal of application	1/26/02	1/14/02	1/24/02 Complete
GEO-2	The assigned engineering geologist(s) shall carry out the duties required by the 1998 CBC.	Submit copies of the Final Engineering Geology Report to the CPM and the CBC.	90 days following completion of Final Grading			
PAL-1	Ensure that the designated paleontological resource specialist is available for field activities.	Submit the name and resume and the availability for its designated paleontological resource specialist.	90 days prior to start of construction	6/3/02	7/26/01	7/27/01 Complete
PAL-1	Ensure that the designated paleontological resource specialist is available for field activities.	Obtain CPM approval of the replacement specialist.	10 days prior to termination or release of PRS			
PAL-2	Prepare Paleontologic Resources Monitoring and Mitigation Plan. WEAT for paleo resources.	Provide the CPM with a copy of the Monitoring and Mitigation Plan.	60 days prior to start of construction	6/1/01	6/1/01	7/27/01 Complete
PAL-3	WEAT for paleo resources.	Submit to the CPM for review, comment, and written approval, the WEAT.	30 days prior to start of construction	9/20/01	9/20/01	10/3/2001 3/20/02 (video) Complete
PAL-3	WEAT for paleo resources.	Documentation for training of additional new employees.	Monthly Compliance Report			In progress
PAL-4	The designated paleontological resource specialist shall be present at all times he or she deems appropriate to monitor.	Include a summary of paleontological activities.	Monthly Compliance Report			
PAL-5	Ensure recovery, preparation for analysis, identification and inventory, the preparation for curation, and the delivery for curature of all significant paleontological resource materials.	Maintain in compliance files copies of signed contracts or agreements with the designated paleontological resource specialist. Maintain these files for a period of three years after approval Paleontological Resources Report.	Periodic Audit by the CPM per PAL-5			

METCALF ENERGY CENTER - COMPLIANCE MATRIX

Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO	Status/Comments
START OF MOBILIZATION/ROUGH GRADING	11/4/2002						
START OF CONSTRUCTION	9/1/2002						
PAL-6	Ensure preparation of a Paleontological Resources Report by the designated paleontological resource specialist.	Submit a copy of the Paleontological Resources Report to the CPM for review and approval.	Within 90 days following completion of the analysis	Facility Closure Plan			
PAL-7	Include in the facility closure plan a description regarding facility closure activity's potential to impact paleontological resources.	Include a description of closure activities in the facility closure plan.					
GEN-1	Design, construct and inspect the project in accordance with the 1998 California Building Code (CBC) and all other applicable LORS in effect at the time initial design plans are submitted to the CBO for review and approval.	Submit to the CPM a statement of verification attesting that all designs, construction, installation and inspection requirements of the applicable LORS and the Decision have been met.	Within 30 days after receipt of the Certificate of Occupancy.				
GEN-1	Design, construct and inspect the project in accordance with the 1998 California Building Code (CBC) and all other applicable LORS in effect at the time initial design plans are submitted to the CBO for review and approval.	Provide the CPM a copy of the Certificate of Occupancy.	Within 30 days after receipt of the Certificate of Occupancy.				
GEN-2	Submit to the CPM and CBO a schedule of facility design submittals, a Master Drawing List, and a Master Specifications List.	Submit the schedule, a Master Drawing List, and 60 days prior to start of rough grading a Master Specifications List to the CBO and to the CPM.	11/15/01	10/4/01	10/18/01	Complete	
GEN-2	Submit to the CPM and CBO schedule updates in Monthly Compliance Report	Provide schedule updates in Monthly Compliance Report	Monthly Compliance Report				
GEN-3	Make payments to the CBO for design review, plan check and construction inspection.	Make the required payments to the CBO at the time of submittal.	Submittal of plans to the CBO.				In progress
GEN-3	Make payments to the CBO for design review, plan check and construction inspection.	Send a copy of the CBO's receipt of payment to the CPM.	Monthly Compliance Report after Fees are Paid	11/15/01	12/14/01	N/A	In progress
GEN-4	Assign a California registered architect, structural engineer or civil engineer, as a resident engineer (RE).	Submit to the CBO for review and approval, the name, qualifications and registration number of the RE.	30 days prior to start of rough grading	12/15/01	8/1/01	8/7/01	Complete
GEN-4	Assign a California registered architect, structural engineer or civil engineer, as a resident engineer (RE).	Notify the CPM of the CBO's approvals of the RE.	Within 5 days of CBO approval	8/12/01	9/19/01	N/A	Complete
GEN-4	Assign a California registered architect, structural engineer or civil engineer, as a resident engineer (RE).	Submit qualifications of replacement RE.	Within 5 days	12/12/01	12/12/01	1/16/02	Complete
GEN-4	Assign a California registered architect, structural engineer or civil engineer, as a resident engineer (RE).	Notify the CPM of the CBO's approval of the new engineer (RE).	Within 5 days of CBO approval	1/21/02	1/18/02	N/A	Complete
GEN-4	Assign a California registered architect, structural engineer or civil engineer, as a resident engineer (RE).	Submit qualifications of replacement RE.	Within 5 days	1/14/02	1/11/02	1/18/02	Complete
GEN-4	Assign a California registered architect, structural engineer or civil engineer, as a resident engineer (RE).	Notify the CPM of the CBO's approval of the new engineer (RE).	Within 5 days of CBO approval	1/23/02	1/20/02	N/A	Complete
GEN-5	Assign A) a civil engineer; B) a geotechnical engineer; C) a design engineer; D) a mechanical engineer; and E) an electrical engineer.	Submit to the CBO for review and approval, the names, qualifications, and registration numbers of all the responsible engineers.	30 days prior to start of rough grading	12/15/01	8/1/01	8/7/01	Complete

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
START OF CONSTRUCTION	9/16/2002					
START OF MOBILIZATION/ROUGH GRADING	1/16/2002					
GEN-5	Assign A) a civil engineer; B) a geotechnical engineer; C) a design engineer; D) a mechanical engineer; and E) an electrical engineer.	The project owner shall notify the CPM of the CBO's approval of the engineers within five days of the approval.	Within 5 days of CBO approval	8/16/01	8/16/01	N/A
GEN-5	Assign A) a civil engineer; B) a geotechnical engineer; C) a design engineer; D) a mechanical engineer; and E) an electrical engineer.	Submit qualifications of replacement engineer.	Within 5 days		12/17/01 11/26/01	1/18/01
GEN-5	Assign A) a civil engineer; B) a geotechnical engineer; C) a design engineer; D) a mechanical engineer; and E) an electrical engineer.	Notify the CPM of the CBO's approval of the new engineer.	Within 5 days of CBO approval			Complete
GEN-6	Assign qualified and certified special inspector(s).	Submit to the CBO for review and approval, with a copy to the CPM, the name(s) and qualifications.	15 days prior to any activity requiring Special Inspection		1/18/02 & 1/28/02	N/A
GEN-6	Assign qualified and certified special inspector(s).	Submit to the CPM a copy of the CBO's qualifications.	Monthly Compliance Report after Special Inspectors are approved		1/11/02	1/16/02
GEN-6	Assign qualified and certified special inspector(s).	Replace special inspectors	Replacement of Special Inspector		2/4/2002 10/22/02	In progress
GEN-6	Assign qualified and certified special inspector(s).	Notify the CPM of the CBO's approval of the newly assigned inspector.	Within 5 days of CBO approval			
GEN-7	Keep the CBO informed regarding the status of engineering and construction.	Submit monthly construction progress reports to the CBO and CPM.	Monthly Construction Progress Report			In progress
GEN-7	Keep the CBO informed regarding the status of engineering and construction.	Document the discrepancy and recommend the corrective action required.	Discrepancy In Design or Construction			
GEN-7	Keep the CBO informed regarding the status of engineering and construction.	Transmit a copy of the CBO's approval or disapproval of any corrective action taken to resolve a discrepancy to the CPM.	Within 15 days of CBO Approval or Disapproval of Discrepancy			
GEN-7	Keep the CBO informed regarding the status of engineering and construction.	If disapproved, advise the CPM, the reason for disapproval, and the revised corrective action to obtain CBO's approval.	Within 5 days of CBO Approval or Disapproval of Discrepancy			
GEN-8	Obtain the CBO's final approval of all completed work.	Submit to the CBO, with a copy to the CPM, a written notice that the completed work is ready for final inspection, and a signed statement that the work conforms to the final approved plans.	Within 15 days of the completion of any work			
CIVIL-1	Prior to the start of site grading, submit to the CBO for review and approval the following: 1. Design of the proposed drainage structures and the grading plan; 2. An erosion and sedimentation control plan; 3. Related calculations and specifications; 4. Soils report	Submit the documents described above to the CBO for review and approval.	15 days prior to start of rough grading	12/30/01	8/27/01	4/2/02
CIVIL-1	Prior to the start of site grading, submit to the CBO for review and approval the following: 1. Design of the proposed drainage structures and the grading plan; 2. An erosion and sedimentation control plan; 3. Related calculations and specifications; 4. Soils report	Submit a written statement certifying that the documents have been approved by the CBO.	Monthly Compliance Report after CIVIL-1 Documents are Approved			Complete (Except for approval of Construction Facilities Plan, Rev.2)
CIVIL-1				5/14/02	5/14/02	Submitted with May Monthly Compliance Report.

METCALF ENERGY CENTER COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
						Status/Comments
START OF MOBILIZATION/ROUGH GRADING	11/14/2002					
START OF CONSTRUCTION	9/1/2002					
CIVIL-2	The resident engineer shall, if appropriate, stop all earthwork and construction in the affected areas when the responsible geotechnical engineer identifies unforeseen adverse soil or geologic conditions.	Notify CPM within 5 days when work is stopped.	Within 5 days when work is stopped			
CIVIL-2	The resident engineer shall, if appropriate, stop all earthwork and construction in the affected areas when the responsible geotechnical engineer identifies unforeseen adverse soil or geologic conditions.	Submit modified plans, specifications and calculations to the CBO based on new conditions.	Work Stopped Due to Unforeseen or Adverse Soil Conditions			
CIVIL-2	The resident engineer shall, if appropriate, stop all earthwork and construction in the affected areas when the responsible geotechnical engineer identifies unforeseen adverse soil or geologic conditions.	Copy CPM within 5 days of CBO approval of Modified Plans.	5 days of CBO approval			
CIVIL-3	Perform Inspections in accordance with the 1998 CBC, Chapter 1, Section 108, Inspections, Chapter 17, Section 1701.6, Continuous and Periodic Special Inspection and Appendix Chapter 33, Section 3317, Grading Inspection.	Perform Inspections in accordance with the 1998 CBC, Chapter 1, Section 108, Inspections, Chapter 17, Section 1701.6, Continuous and Periodic Special Inspection and Appendix Chapter 33, Section 3317, Grading Inspection.	Start of Rough Grading			
CIVIL-3	Perform Inspections in accordance with the 1998 CBC, Chapter 1, Section 108, Inspections, Chapter 17, Section 1701.6, Continuous and Periodic Special Inspection and Appendix Chapter 33, Section 3317, Grading Inspection.	The resident engineer shall transmit to the CEO and the CPM a Non-Conformance Report and the proposed corrective action.	Within 5 days of discovery of discrepancy in grading			
CIVIL-3	Perform Inspections in accordance with the 1998 CBC, Chapter 1, Section 108, Inspections, Chapter 17, Section 1701.6, Continuous and Periodic Special Inspection and Appendix Chapter 33, Section 3317, Grading Inspection.	Submit the details of the corrective action to the CBO and the CPM.	Within 5 days of resolution of grading NCR.			
CIVIL-3	Perform Inspections in accordance with the 1998 CBC, Chapter 1, Section 108, Inspections, Chapter 17, Section 1701.6, Continuous and Periodic Special Inspection and Appendix Chapter 33, Section 3317, Grading Inspection.	A list of NCR's, for the reporting month, shall also be included in the following Monthly Compliance Report.	Monthly Compliance Report after Resolution of Grading NCR.			
CIVIL-4	After completion of finished grading and erosion and sedimentation control and drainage facilities, the project owner shall obtain the CBO's approval of the final "as-graded" grading plans, and final "as-built" plans for the erosion and sedimentation control facilities.	Submit to the CBO the responsible Civil engineer's signed statement that the installation of the facilities and all erosion control measures were completed in accordance with the final approved combined grading plans.	30 days after completion of the Erosion and Sediment Control Mitigation and Drainage Facilities	7/26/02	7/26/2002 / 1/6/03	Complete for phase 1 grading only.
CIVIL-4	After completion of finished grading and erosion and sedimentation control and drainage facilities, the project owner shall obtain the CBO's approval of the final "as-graded" grading plans, and final "as-built" plans for the erosion and sedimentation control facilities.	Submit a copy of this report to the CPM in the next Monthly Compliance Report.	Monthly Compliance Report Following Completion of the Erosion and Sediment Control Mitigation and Drainage Facilities	8/14/02	8/14/2002 / 1/17/03	Complete for phase 1 grading only.

METCALF ENERGY CENTER - COMPLIANCE MATRIX

Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO	Status/Comments
START OF MOBILIZATION/ROUGH GRADING	1/14/2002						
START OF CONSTRUCTION	9/1/2002						
STRUC-1	Submit to the CBO for review and approval the applicable designs, plans and drawings, and a list of those project structures, components and major equipment items that will undergo dynamic structural analysis.	Submit to the CBO, with a copy to the CPM, the responsible design engineer's signed statement that the final design plans, specifications and calculations conform with all of the requirements.	30 days prior to any increment of STRUC-1 Construction				
STRUC-1	Submit to the CBO for review and approval the applicable designs, plans and drawings, and a list of those project structures, components and major equipment items that will undergo dynamic structural analysis.	Oblain approval from the CBO of lateral force procedures proposed for project structures. Obtain approval from the CBO for the final design plans, specifications, calculations, soils reports, and applicable quality control procedures. Submit to the CBO the required number of copies of the structural plans, specifications, calculations. The final designs, plans, calculations and specifications shall be signed and stamped by the responsible design engineer.	90 days prior to the start of on-site fabrication and installation of each structure				In progress
STRUC-1	Submit to the CBO for review and approval the applicable designs, plans and drawings, and a list of those project structures, components and major equipment items that will undergo dynamic structural analysis.	If the CBO discovers non-conformance with the stated requirements, resubmit the corrected plans to the CBO with a copy to the CPM.	Within 20 days of receipt of the nonconforming submittal				
STRUC-1	Submit to the CBO for review and approval the applicable designs, plans and drawings, and a list of those project structures, components and major equipment items that will undergo dynamic structural analysis.	Submit to the CPM a copy of a statement from the CBO that the proposed structural plans, specifications, and calculations have been approved and are in conformance with the requirements.	Approval by the CBO of Resubmitted STRUC-1 Submittal				
STRUC-2	The project owner shall submit to the CBO the required number of sets of the following: See STRUC-2.	Submit test reports and inspection reports to the CBO	Test Reports or Inspection Reports are Complete				
STRUC-2	The project owner shall submit to the CBO the required number of sets of the following: See STRUC-2.	If a discrepancy is discovered in any of the above data prepare and submit an NCR to the CBO, with a copy of the transmittal letter to the CPM.	Within 5 days of discovery of discrepancy				
STRUC-2	The project owner shall submit to the CBO the required number of sets of the following: See STRUC-2.	Submit a copy of the corrective action to the CBO and the CPM.	Within five days of resolution of the NCR				
STRUC-2	The project owner shall submit to the CBO the required number of sets of the following: See STRUC-2.	Transmit a copy of the CBO's approval or disapproval of the corrective action to the CPM.	Within 15 days of CBO approval				
STRUC-2	The project owner shall submit to the CBO the required number of sets of the following: See STRUC-2.	If disapproved, advise the CPM, the reason for disapproval, and the revised corrective action to obtain CBO's approval.	Within 5 days of CBO disapproval				
STRUC-3	Submit to the CBO design changes to the final plans required by the 1988 CBC, Chapter 1, Section 106.3.2, Submittal documents, and Section 106.3.3.	Notify the CBO of the intended filing of design changes, and shall submit the required number of sets of revised drawings and the required number of copies with a copy of the transmittal letter to the CPM.	Design Changes to STRUC-1 Designs Previously Approved by the CBO				

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
START OF MOBILIZATION/ROUGH GRADING		START OF CONSTRUCTION				
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
STRUC-3	Submitted to the CBO design changes to the final plans required by the 1988 CBC, Chapter 1, Section 108.3.2, Submittal documents, and Section 105.3.3.	Notify the CPM, via the Monthly Compliance Report, when the CBO has approved the revised plans.	Monthly Compliance Report			
STRUC-4	Tanks and vessels containing quantities of toxic or hazardous materials exceeding amounts must be designed to comply with Occupancy Category 2 of the 1988 CBC.	Submit to the CBO for review and approval, final design plans, specifications, and calculations, including a copy of the signed and stamped engineer's certification.	30 days prior to the start of installation of the tanks or vessels			
STRUC-4	Tanks and vessels containing quantities of toxic or hazardous materials exceeding amounts must be designed to comply with Occupancy Category 2 of the 1988 CBC.	Send copies of the CBO approvals of plan checks to the CPM in the following Monthly Compliance Report.	Monthly Compliance Report			
STRUC-4	Tanks and vessels containing quantities of toxic or hazardous materials exceeding amounts must be designed to comply with Occupancy Category 2 of the 1988 CBC.	Transmit a copy of the CBO's inspection approvals to the CPM.	Monthly Compliance Report			
MECH-1	Prior to the start of any increment of piping construction, submit, for CBO review and approval, the proposed final design drawings, specifications and calculations for each plant piping system.	Submit to the CBO for approval, with a copy to the CPM, the proposed final design plans, specifications, calculations, and quality control procedures for that increment of construction of piping systems.	30 days prior to the start of any increment of piping construction			
MECH-1	Prior to the start of any increment of piping construction, submit, for CBO review and approval, the proposed final design drawings, specifications and calculations for each plant piping system.	Transmit a copy of the CBO's inspection approvals to the CPM in the Monthly Compliance Report following completion of any inspection.	Monthly Compliance Report after CBO Inspection Approval of MECH-1 Piping Systems			
MECH-2	For all pressure vessels installed in the plant, submit to the CBO and Cal-OSHA, prior to operation, the code certification papers and other documents required by the applicable LORS.	Submit to the CBO for review and approval, final design plans, specifications, and calculations, including a copy of the signed and stamped engineer's certification, with a copy to the CPM.	30 days prior to the start of on-site fabrication or installation of any pressure vessel			
MECH-2	For all pressure vessels installed in the plant, submit to the CBO and Cal-OSHA, prior to operation, the code certification papers and other documents required by the applicable LORS.	The project owner shall send copies of the CBO plan check approvals to the CPM in the following Monthly Compliance Report.	Monthly Compliance Report after CBO Approval of Plan Checks for Pressure Vessels			
MECH-2	For all pressure vessels installed in the plant, submit to the CBO and Cal-OSHA, prior to operation, the code certification papers and other documents required by the applicable LORS.	Transmit a copy of the CBO's and/or Cal-OSHA inspection approvals to the CPM in the Monthly Compliance Report following compilation of any inspection.	Monthly Compliance Report after CBO Inspection Approval of Pressure Vessels Defined in MECH-2			

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
START OF MOBILIZATION/ROUGH GRADING		START OF CONSTRUCTION				
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date Submitted to CPM/CBO	Date approved by CPM/CBO
MECH-3	Prior to the start of construction of any heating, ventilating, air conditioning (HVAC) or refrigeration system, submit to the CBO for review and approval the design plans, specifications, calculations and quality control procedures for that system.	Submit to the CBO the required HVAC and refrigeration calculations, plans and specifications, including a copy of the signed and stamped statement from the responsible mechanical engineer, with a copy to the CPM.	30 days prior to the start of construction of any HVAC or refrigeration system			
MECH-3	Prior to the start of construction of any heating, ventilating, air conditioning (HVAC) or refrigeration system, submit to the CBO for review and approval the design plans, specifications, calculations and quality control procedures for that system.	Send copies of CBO comments and approvals to the CPM in the next Monthly Compliance Report.	Monthly Compliance Report after CBO Approval of Plan Checks for HVAC Systems			
MECH-3	Prior to the start of construction of any heating, ventilating, air conditioning (HVAC) or refrigeration system, submit to the CBO for review and approval the design plans, specifications, calculations and quality control procedures for that system.	Transmit a copy of the CBO's Inspection Approvals to the CPM in the Monthly Compliance Report following completion of any inspection.	Monthly Compliance Report after CBO Inspection Approval of HVAC Systems Defined in MECH-3			
MECH-4	Prior to the start of each increment of plumbing construction, submit for CBO's approval the final design plans, specifications, calculations, and QA/QC procedures for all plumbing systems, potable water systems, drainage systems, toilet rooms, building energy conservation systems, and temperature control and ventilation systems, including water and sewer connection permits issued by the local agency.	Submit to the CBO the final design plans, specifications and calculations, including a copy of the signed and stamped statement from the responsible mechanical engineer certifying compliance with the applicable edition of the CBC.	30 days prior to the start of construction of any of the above systems			
MECH-4	Prior to the start of each increment of plumbing construction, submit for CBO's approval the final design plans, specifications, calculations, and QA/QC procedures for all plumbing systems, potable water systems, drainage systems, toilet rooms, building energy conservation systems, and temperature control and ventilation systems, including water and sewer connection permits issued by the local agency.	Send the CPM a copy of the transmittal letter with the signed and stamped statement from the responsible mechanical engineer certifying compliance with the applicable edition of the CBC in the next Monthly Compliance Report.	Monthly Compliance Report after Mechanical Engineer Certification of HVAC System per MECH-4			
MECH-4	Prior to the start of each increment of plumbing construction, submit for CBO's approval the final design plans, specifications, calculations, and QA/QC procedures for all plumbing systems, potable water systems, drainage systems, toilet rooms, building energy conservation systems, and temperature control and ventilation systems, including water and sewer connection permits issued by the local agency.	Transmit a copy of the CBO's Inspection Approvals to the CPM in the next Monthly Compliance Report following completion of that increment of construction.	Monthly Compliance Report after CBO Inspection of HVAC System per MECH-4			

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Status/Comments
START OF MOBILIZATION/ROUGH GRADING	1/14/2002					
START OF CONSTRUCTION	9/7/2002					
ELEC-1	For the 480V and higher systems, shall not begin any increment of electrical construction until plans for that increment have been approved by the CBO.	Submit to the CBO for review and approval the final design plans, specifications and calculations for electrical equipment, including a copy of the signed and stamped statement from the responsible electrical engineer.	30 days prior to the start of each increment of electrical construction			
ELEC-1	For the 480V and higher systems, shall not begin any increment of electrical construction until plans for that increment have been approved by the CBO.	Send a copy of the transmittal letter of the signed and stamped statement from the electrical engineer attesting compliance with the applicable LORS to the CPM.	Monthly Compliance Report after submitting Electrical Documents for CBO Approval per ELEC-1			
ELEC-1	For the 480V and higher systems, shall not begin any increment of electrical construction until plans for that increment have been approved by the CBO.	The following activities shall be reported in the Monthly Compliance Report: 1. Receipt or delay of major electrical equipment. 2. Testing or energization of major electrical equipment.	Monthly Compliance Report after Receipt or Testing of Equipment or CBO Approval of Electrical Drawings per ELEC-1			
ELEC-2	The project owner shall submit to the CBO the required number of copies of items A and B for review and approval and one copy of item C [CBC 1998, Section 106.3.2, Submittal documents.]	Submit to the CBO for review and approval the final design plans, specifications and calculations, for electrical equipment, including a copy of the signed and stamped statement from the responsible electrical engineer certifying compliance with the applicable LORS.	30 days prior to the start of each increment of electrical equipment installation			In progress
ELEC-2	The project owner shall submit to the CBO the required number of copies of items A and B for review and approval and one copy of item C [CBC 1998, Section 106.3.2, Submittal documents.]	Send a copy of the transmittal letter of the signed and stamped statement from the responsible electrical engineer attesting compliance with the applicable LORS to the CPM in the next Monthly Compliance Report.	Monthly Compliance Report after submitting Electrical Documents for CBO Approval per ELEC-2			
TSE-1	Ensure the design, construction and operation of transmission facilities conform to requirements TSE1a - h listed in Conditions of Certification.	Submit for approval to the CPM: Design drawings, specifications and calculations for the poles/towers, foundations, anchor bolts, conductors, grounding systems and major switchyard equipment.	60 days prior to construction of transmission facilities			
TSE-1	Ensure the design, construction and operation of transmission facilities conform to requirements TSE1a - h listed in Conditions of Certification.	Submit for approval to the CPM: b) For each element of the transmission facilities as identified above, the submittal package to the CPM shall contain the design criteria, etc.	60 days prior to construction of transmission facilities			
TSE-1	Ensure the design, construction and operation of transmission facilities conform to requirements TSE1a - h listed in Conditions of Certification.	Submit for approval to the CPM: c) Electrical one-line diagrams signed and sealed by the registered professional electrical engineer in responsible charge, a route map, and an engineering description of equipment.	60 days prior to construction of transmission facilities			
TSE-2	Inform the CPM of any impending changes which may not conform to the requirements of 1a - h listed in TSE-1 and request CPM approval to implement changes.	Inform the CPM of any impending changes which may not conform.	60 days prior to construction of transmission facilities			

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPW/CBO	Status/Comments
TSE-3	Be responsible for the inspection of the transmission facilities during and after project construction and any subsequent CPM approved changes.	Transmit to the CPM "as built" engineering description(s) and one-line drawings of the as-built facilities signed and sealed by a registered electrical engineer in responsible charge.	Within 60 days after synchronization of the project			
TSE-3	Be responsible for the inspection of the transmission facilities during and after project construction and any subsequent CPM approved changes.	Transmit to the CPM an "as built" engineering description of the mechanical, structural, and civil portion of the transmission facilities signed and sealed by the registered engineer.	Within 60 days after synchronization of the project			
TSE-3	Be responsible for the inspection of the transmission facilities during and after project construction and any subsequent CPM approved changes.	Transmit to the CPM a summary or inspections of the completed transmission facilities, and identification of any nonconforming work and corrective actions taken, signed and sealed by the registered engineer.	Within 60 days after synchronization of the project			
Governor's Executive Order No. D-25-01	Milestones, and method of verification must be established and agreed upon by the project owner and the CPM no later than 30 days after project approval, the date of docketing. If this deadline is not met, the CPM will establish the milestones.	ESTABLISH PRE-CONSTRUCTION MILESTONES TO ENABLE START OF CONSTRUCTION WITHIN ONE YEAR OF CERTIFICATION	Project Certification	10/24/01	10/24/01	1/15/01 Complete
Governor's Executive Order No. D-25-01	Milestones, and method of verification must be established and agreed upon by the project owner and the CPM no later than 30 days after project approval, the date of docketing. If this deadline is not met, the CPM will establish the milestones.	ESTABLISH CONSTRUCTION MILESTONES FROM DATE OF START OF CONSTRUCTION	Project Certification	10/24/01	10/24/2001 9/10/02 (rev.)	1/19/2001 10/25/02 (rev.) Complete
US Dep Commerce	The project applicant shall notify the NMFS Santa Rosa office when project construction begins and ends, (horizontal drilling).	Notify NMFS	Start of streambed alteration activities			
Pre-constr matrix	Prior to commencing construction a compliance matrix addressing only those conditions that must be fulfilled before the start of construction shall be submitted to the CPM.	Construction shall not commence until the pre-construction matrix is submitted, all pre-construction conditions have been compiled with, and the CPM has issued a letter to the project owner authorizing construction.	Start of Construction	9/1/02	8/7/02	8/30/02 Complete
Compliance matrix	A compliance matrix shall be submitted by along with monthly and annual compliance report.	Submit compliance matrix to CPM	Monthly Compliance Report	11/15/01	11/15/01	On-going

**LISTING OF COMPLAINTS AND NOTICES OF
VIOLATIONS**
INCLUDES MEC PUBLIC INFORMATION/CONTACT LOG

METCALF ENERGY CENTER
MONTHLY COMPLIANCE REPORT #19

MEC PUBLIC CONTACT LOG - April 2003

DATE/TIME	NAME & CONTACT	FORM OF CONTACT	PURPOSE OF CALL/CONTACT	ACTION/RESOLUTION	DATE/TIME OF RESPONSE	MEC REP
3/29/03 6:51AM	Brian Nelson	Phone	Requested information on MEC water use. Concerned about water table.	Returned call.	4/4/2003	Art Gonzales
4/5/2003	Brian Nelson	Letter	Concerned about water table.	Sent informational packet on MEC and called.	4/8/2003	Lisa Poelle / Ken Abreu
4/4/2003	Steve Conner	Phone	Interested in employment	Forwarded to construction manager	4/7/2003	Art Gonzales
4/23/2003	Saad Mozzi	Phone	Interested in employment	Forwarded to construction manager	4/23/2003	Art Gonzales
4/25/2003	Andy Bebbs	Phone	Interested in employment	Forwarded to construction manager	4/25/2003	Art Gonzales
4/29/2003	Aaron	Phone	Requested information on MEC. Buying home in the area.	Returned call.	5/1/2003	Art Gonzales

CBO SUBMITTALS, COMMENTS AND APPROVALS

**METCALF ENERGY CENTER
MONTHLY COMPLIANCE REPORT #19**



Power Plant CBO Team
Metcalf Energy Center
San Jose, California

March 19, 2003

DISPOSITION

Metcalf Energy Center
1 Blanchard Road
San Jose, CA 95013

Attention: Nicholas LaPorte, Project Manager

Subject: CEC Docket No.: **(99-AFC-3)**
Condition of Certification: **GEN-5/LINEAR/GAS**
CBO Project No.: **MEC 13254**
Submittal Dated: **February 5, 2003**

Gentlemen,

The CBO has reviewed the above referenced submittal for and provides the following disposition conditioned upon response to Note(s):

Responsible Mechanical Engineer: John J. Byrne, P.E., CA #12760
Responsible Civil Engineer: Bernard Wroblewski, P.E., CA #21859

The qualifications are **CONDITIONALLY APPROVED** subject to notes:

Note 1: Describe organization and individuals performing actual design work.

Note 2: Confirm that the Civil Engineer shall monitor construction progress and provide consultation to the RE during design and construction of the project.

Sincerely,

For: **Donald C. Wimberly, P.E.**
Delegate Chief Building Official
Willdan/AIMS CORPORATION

Hans (G.J.) Kosten
Deputy CBO
Willdan/AIMS CORPORATION

Copy: Kristen O'Kane – Calpine CMCI
Kevin Deters – Calpine CMCI
Barbara Hatt – Calpine CMCI (Doc. Control)

CBO file: B. Brierty



Power Plant CBO Team
Metcalf Energy Center
San Jose, California

March 20, 2003

DISPOSITION

Metcalf Energy Center
1 Blanchard Road
San Jose, CA 95013

Attention: Nicholas LaPorte, Project Manager

Subject: CEC Docket No.: (99-AFC-3)
Condition of Certification: GEN-6
CBO Project No.: MEC 13254
Submittal Dated: February 4, 2003

Gentlemen,

The CBO has reviewed the above referenced submittal and provides the following disposition, conditioned upon Note(s) as stated:

Special Inspector: Robert Bigford: APPROVED (see note 1)

Special Inspector: Julio Pescador: APPROVED (see note 1)

Note 1: Copy of Certifications of the inspectors shall be provided.

Sincerely,

For: **Donald C. Wimberly, P.E.**
Delegate Chief Building Official
Willdan/AIMS CORPORATION

Hans (G.J.) Kosten
Deputy CBO
Willdan/AIMS CORPORATION

Copy: Kristen O'Kane – Calpine CMCI
Kevin Deters – Calpine CMCI
Barbara Hatt – Calpine CMCI (Doc. Control)

CBO file: Bart Brierty



Power Plant CBO Team
Metcalf Energy Center
San Jose, California

March 21, 2003

DISPOSITION

Metcalf Energy Center
1 Blanchard Road
San Jose, CA 95013

Attention: Nicholas LaPorte, Project Manager

Subject:	CEC Docket No.:	(99-AFC-3)
	Condition of Certification:	GEN-5/TSE-1
	CBO Project No.:	MEC 13254
	Submittal Dated:	February 4, 2003

Gentlemen,

The CBO has reviewed the above referenced submittal and provides the following disposition, conditioned upon response to Note(s):

Structural Engineer: Carl Johnson, P.E.: **APPROVED (see note 1)**

Structural Engineer: Kevin Murar, P.E.: **APPROVED (see note 1)**

Note 1: Copy of California Registration of the Professional Engineers shall be provided.

Sincerely,

For: **Donald C. Wimberly, P.E.**
Delegate Chief Building Official
Willdan/AIMS CORPORATION

Hans (G.J.) Kosten
Deputy CBO
Willdan/AIMS CORPORATION

Copy: Kristen O'Kane – Calpine CMCI
Kevin Deters – Calpine CMCI
Barbara Hatt – Calpine CMCI (Doc. Control)

CBO file: B.Brierty

CR0001713



1430 Koll Circle, Suite 103
San Jose, CA 95112
Ph: (408) 392-9213 Fax: (408) 392-9214

15 April 2003

ORIGINAL

Calpine
Metcalf Energy Center
1 Blanchard Road
San Jose, CA 95013

Attn.: James Kimura, P.E.

RECEIVED

APR 16 2003

**METCALF ENERGY
CENTER**

**CBO Additional Review Comments on Calpine's Fire Risk Evaluation Plan
Burns and Roe Transmittal No. CBO-00091**

The CBO makes the following additional comments on the Fire Risk Evaluation Plan (FREP), dated 30 October 2001, contained in the above subject transmittal:

1. Section 1.3.3 states that the Water Treatment Building will not be protected by sprinklers. Provide the floor area square footage of the building. If the floor area exceeds 6000 square feet, the building will have to be sprinklered.
2. Any fire retardant plywood or lumber used in the construction of the cooling tower, such as for the cooling tower deck, must be of a type that has successfully been subjected to an accepted leaching test; otherwise fire protection for the cooling tower will have to be provided. Submit detailed information relevant to successful leaching tests on all wooden cooling tower materials, and on the non-combustibility of all materials (wood, fiberglass, other) to be used in the cooling tower. Refer to Section 1.3.8.
3. Provide in Section 1.4.5 the method to be used for cooling the steam turbine's generator.

4. Provide detailed information about the less hazardous type of hydraulic fluid to be used in the steam turbine's hydraulic systems. Information regarding the flashpoint and other parameters of the fluid must be provided, in order to confirm that the fluid qualifies as a less hazardous type of fluid and thereby not requiring specific fire protection in the vicinity of the hydraulic system. Refer to Section 1.4.5.
5. Section 1.4.6 only partially describes the containment for the various transformer systems. Confirm that containment structures for transformers protected by deluge systems can each contain both the complete amount of oil in the transformer and 10 minutes of water supply from the deluge system. For those transformers using a valid less hazardous oil, and without a water deluge system, the containment structures must each contain the complete amount of oil in the transformer and an amount of rain water as determined by the requirements of CFC Article 80.
6. Section 1.4.8 states that the standby generator is natural gas fired. In the event of a major fire at the plant, the natural gas supply to the plant may be shut-down, thereby rendering the standby generator non-operational. The fuel gas supply for the standby generator should be tapped upstream of the plant gas shut-off valve into the plant supply line, or be a secondary tap directly into the PG&E supply pipeline.
7. Section 1.4.8 requires a 24-hour battery supply for the plant fire alarm system. The 24-hour requirement will be satisfactory only if the plant fire alarm system is connected to a UL listed or FM approved central station service, or if the plant's fire alarm system and staffing complies with the requirement outlined for proprietary fire alarm systems in Section 4-3 of NFPA 72. If not, the time required will be 60 hours.
8. Amend Section 2-0 to refer to both the California Building Code (CBC) and the California Mechanical Code (CMC).
9. The building separation between the Warehouse/Administration Building and the Water Treatment Building must comply with the requirements of Chapters 3 and 5, regarding building separation and construction size allowed.
10. Section 4-1 does not provide for the use of fire/smoke dampers. Fire/smoke dampers are required in penetrations of area or occupancy separation walls, penetrations in corridors serving means of egress, and penetrations in smoke barriers. Fire/smoke dampers must be actuated by a smoke detector, either duct-mounted or mounted within 5 feet of an un-ducted opening. CMC requires shutdown of

mechanical systems with airflow capacity greater than 2,000 cfm. The system may include more than one HVAC unit. For example, if a system is comprised of one 1,000 cfm and one 1,200 cfm ventilation units serving the same space, both units would require the necessary detection and both would be required to shutdown simultaneously in the event of an alarm.

11. On page 5-2, the reference to NFPA 98 should be changed to the CMC.
12. In Table B, the warehouse is identified as requiring a density of 0.24 gpm of sprinklered water per square foot of floor area over 2,000 square feet. Provide the method of deriving that density.
13. Clarify if the DCS Room in the Administration Building is provided with sprinkler protection or solely with a FM-200 system. The building is approximately 14,500 square feet, and thereby requires sprinkler protection throughout, including the DCS room, because the entire structure is over 6,000 square feet. Sprinkler protection is mandatory and can not be substituted with gaseous fire suppression systems. A pre-action sprinkler system is recommended to serve both the Control Room and DCS room.
14. The FM-200 systems planned for the combustion turbine enclosures and the mechanical package enclosure must meet the requirements of NFPA 850, Section 6-5.4.2, which requires that each system maintain the minimum concentration for 20 minutes. Supplemental discharge might be needed, because of high leakage rates usually experienced in the hard-to-seal enclosures.
15. Table A appears to not have a plant-wide audible fire alarm or communication system. If the plant does not have one dedicated operator on duty at all times, the occupant notification system should be arranged so that all devices operate simultaneously. This would alert a roving operations staff member that an alarm has occurred somewhere in the plant and that action needs to be taken.
16. Table B identifies the area under the steam turbine generator as having a fire deluge sprinkler requirement of 0.30 gpm per square foot over a 5,000 square foot area, with all sprinklers open. Other portions of the FREP indicate that the sprinklers are to be placed in areas where oil may spray or flow. Clarify this discrepancy, and clearly define the areas beneath the steam turbine generator that will be required to have fire suppression protection.

17. Are the HRSG boiler feed water pumps steam driven or electrically driven? If steam driven, localized sprinkler protection may be needed at the pumps, depending on the amount of lube oil.
18. The FREP will need to include an explanation of the yet-to-be-determined and CBO-accepted design solution to the close proximity of the Fire Pump House to the Gas Compressor Building, as regards an explosion in the Gas Compressor Building.
19. The required fire flow of 4,500 gpm established by SJFD for this project needs to be addressed in the FREP with regard to the pump size of 3,000 gpm. Also, explain the relationship of the MUNI water supply to the fire water tank volume requirements—tank replenishment rates, direct connection to the fire main and pressures expected, etc.
20. On page 5-25, risers for the various wet pipe fire sprinkler systems are discussed. Control valves for sprinkler systems must be at least 40 feet from the structure. If located in a structure, the control valve must be in a 1-hour fire rated enclosure with access from the exterior. Each system, or group of systems, is required to have a fire department connection at least 40 feet from the structure or hazardous area. Fire department connections are not allowed on underground fire mains that have hydrants.

For:

Donald C. Wimberly, P.E.
Delegate Chief Building Official



Greg Carr, P.E.
Fire Protection Coordinator

CC: Don Wimberly, CBO
Hans Kosten, CBO
Bart Brierty, CBO

Memorandum

TO: Bart Brierty, CBO at MetCalf

CC: Limin He, Willdan.

FROM: Gang Jiao, Willdan

SUBJECT: Drawing and Calculations for Demineralized and Firewater Storage Tanks
Submittal #3055; CBO #000162
MEC: 13254

DATE: April 24, 2003

The following are our plan review comments for the subject project.

PART 1 – GENERAL COMMENTS

1. The pile lateral capacity used in these calculations was estimated by the structural engineers, and was based on the pile loading test results and NAVY Design Manual (NAVFAV DM-7). This procedure should be concurred by the original soil engineer, especially their interpretation of the pile test results. Please note in Lowney Associates' letter to Calpine, dated 09/17/2002, which summarizes the pile test results, the soil engineer did not recommend increasing the specified pile lateral capacities.

PART 2 – STRUCTURAL CALCULATIONS

2. PAGE 4:
The angle used to calculate "R" and "a" should be 11.25 degree instead of 22.5 degree. Please correct.
3. PAGE 18:
As the piles were designed to take larger lateral force, the pile, as a structural member, should be checked for its shear and flexure strength.
4. PAGE 3, APPENDIX 3:
The seismic force should be considered in any horizontal direction, instead of two principle axes, see CBC Section 1634.3. This can be achieved by combining the effects of the two orthogonal directions, ie., $1.0E_x + 0.3E_y$.

It seems that the designer arbitrarily included a fixed end moment of 98 k-ft at the top of all piles as an external force. If this is true, the moment should be removed. This

may compensate the underestimation of seismic force caused by the previous comment.

PART 3 – STRUCTURAL PLANS

5. DETAIL 4 OF SHEET S111:

Pile cut-off elevation is 1'-6" above the bottom of pile cap as opposed to 8" shown in the typical pile details. Therefore, the minimum pile depth from pile cut-off elevation specified in Note 7 on DWG S110 shall be revised accordingly.

Since the pile stiffness used in estimating pile lateral capacity was based on a composite section, not only the pile reinforcement, but also the steel shell should have enough embedment length and/or proper connection details to ensure the composite steel shell pile is fixed at the pile cap. Please provide calculations to verify.

METCALF DOCUMENT SUBMITTAL RECORD
CALPINE B&R AND CBO

WILLDAN CBO PROJECT NO. 13254

Cond.	Pack. No.	CBO No.	Package Title	Review/Approval Dates				Comments		Documents	
				Issued	Response Forecast	Response Received	Plan Checker	Status	Sub'd	Rsp'd	
		000001	Never Assigned								
		000002	Never Assigned								
		000009	Construction Facilities Drawing	2/27/2002 3/20/2002	3/21/2002						1
GEN-2		000010	Gas Turbine Diffuser	2/27/2002 3/20/2002	3/21/2002	3/29/2002	See 00025	1	A-3/29/2002		1
GEN-2		000025	Gas Turbine Diffuser Condition of Certification	4/22/2002					A-4/24/02		1
GEN-6	1008		Field Engineers and Special Inspectors John Edwin Nelson and Roman M. Reyes						A-9/28/02		1
GEN-2	1009		Bechtel Proposed CBO Submittal List (24193-000-T01-GEGX-00018)						C-10/16/02		1
GEN-5	1011		Qualifications Statement Ballod (Civil), Masi (Mech) & Rubin (Elect)						A-1/18/02		1
GEN-4	1012		Statement of Qualifications, Shukke Miao, (Resident Engineer [CIVIL]) Mortenson						A-1/17/02		1
GEN-5	1013		Statements of Qualifications C. Barry Butler and Richard G. Woodward (Geotech)						A-1/16/02		1
GEN-6	1014		Statement of Qualifications, Bill Petroski						C-1/18/02		1
GEN-6	1015		Special Inspectors-Jarrod Bordi (1 of 6)-ICBO/ACI	01/11/02					A-1/16/02		1
GEN-6	1015		Special Inspector-Kevin Brown (2 of 6)-ICBO/ACI	01/11/02					AWS/CW		1
GEN-6	1015		Special Inspector-Leah Welliver (3 of 6)-ICBO/ACI	01/11/02					A-1/16/02		1
GEN-6	1015		Special Inspector - Steven Harvey (4 of 6)-ICBO/ACI	01/11/02					A-1/16/02		1
GEN-6	1015		Special Inspectors-Buddy Chamberlain Jr. (5 of 6)	01/11/02					C-1/16/02		1
GEN-6	1015		Special Inspectors - Daniel Camacho (6 of 6)	01/11/02					C-1/16/02		1
GEN-6	1015		Statement of Qualification - Special Inspectors	01/11/02					C-1/17/02		1
GEN-5	1016		Statement of Qualifications, Emma, Chianese						A-9/20/02		1
GEN-5	1017		Statement of Qualification: Civil/Structural - Mr. Lanty						A-9/20/02		1
GEN-5	1019		Statement of Qualification: Civil -Protocol A, Mr. Lanty						A-9/20/02		1
GEN-2	1017	000051	CBO Submittal List	07/18/02							
GEN-2	1017	000083	CBO Submittal List	10/11/02							1
GEN-2	1018	000138	CBO Submittal List	01/27/02							1
GEN-5	1017		Resp. Design Eng: Civil -Mr. Lanty								1
GEN 4			[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
TSE-1			Resident Engineer Transition Acceptance by SG	02/04/03							1
			Resp. Design Eng: Switchyard - Carl Johnson	02/04/03					HK	Approved	1
			Resp. Design Eng: Switchyard - Kevin Murac	02/04/03					HK	Approved	1
GEN 5			Resp. Design Eng: Gas Pipeline - John Byrne	02/05/03					HK	Approved	1
GEN 5			Resp. Design Eng: Gas Pipeline - Bernard Wroblewski	02/05/03					HK	Approved	1
GEN 5			Organization Chart	05/07/03					HK		
			Resumes: Raymundo Engineering Company, Inc	05/07/03					HK		
			William Raymundo	05/07/03					HK		
			Inspection Plans	05/07/03					HK		
											Total: Total:
											General Section

**NET BULL DOCUMENT SUBMISSIONAL RECORD
CALPINE B&R AND CBO**

WILLDAN CBO PROJECT NO 13254

WILLDAN CBO PROJECT NO. 13254
WEBSITE DOCUMENT SUBMITTAL RECORD
CAPLINE B&R AND CBO

Condition of Certification	Pack. No.	CBO No.	Package Title	Review /Approval Dates					Comments or Action Required		Documents
				Issued Due Date	To Check	From Check	Resp' Date	Check By	Status	Rcd	
CIVIL-1	Bechtel	Storm Water Management Plan	Erosion-Sediment Control & Storm Water Plan: Report# 24193-000-G27-GEK-00001 Rev2	10/19/01			4/8/2002	DN	Approved	R2	0 0
		Calc: Storm Basin Sizing H&H-1 Rev 1	08/21/02				4/8/2002		Approved	R1	1 1
	*	Calc: Storm Drain Design H&H-2 Rev 2	10/30/2002				4/8/2002		Approved	R2	1 1
	*	Calc: Retaining Wall Structure 000-DBC-000-00001	10/10/2002				4/8/2002		Approved	R0 * May not belong in this package	1 1
		Drwg: 0-C2-0000-00001 Site Plan	10/12/2001				4/8/2002		Approved	R2	1 1
		Drwg: 0-C2-0000-00002 Const. Facilities	10/17/2001							R2	1 0
		Drwg: 0-CE-0000-00001 Clearing Stripping Stockpile	10/19/2001				4/8/2002		Approved	R1	1 0
		Drwg: 0-CG-0100-00001 Rough Grading Phase 1	10/24/2001				4/8/2002		Approved	R3	1 0
		Drwg: 0-CG-0100-00002 Rough Grading Phase 2								R2	1 0
		Drwg: 0-CG-0090-00001 Erosion Control Details								R1	1 0
		Drwg: 0-CG-0090-00002 Drainage Details	8/20/2001							R1	1 0
		Drwg: 0-CG-0090-00003 Rough Grading Details								R1	1 0
		Drwg: 0-CG-0090-00004 Drainage Headwall Details	10/19/2001				4/8/2002		Approved	R1	1 0
		Drwg: 0-CG-0090-00005 Rough Grading Sections								R1	1 0
	*	Drwg: 0-CD-0100-00006 Retaining Wall	8/10/2001							R0 * May not belong in this package	1 0
		Drwg: 0-CD-0100-00001 Storm Water Piping Plan	10/31/2001				4/8/2002		Approved	R2	1 0
		Drwg: 0-CS-0200-00001 Main Access Road	10/19/2001				4/8/2002		Approved	R1	1 0
		Drwg: 0-CS-0300-00001 Railroad Plan & Profile	8/10/2001							R0	1 0
CIVIL-1	2001	Rough Grade Plan Check	8/29/2001							C-9/18/01	1 1
CIVIL-1	2001	Grading Retaining Wall-Geotech Review	9/18/2001							C-10/19/01	1 1
CIVIL-1	2001	Geotechnical Report (by Arroyo)								6/12/2002	1 1
CIVIL-1	2002	Plot Plan - Bechtel C2-0000-00003	1/12/2002							C-10/26/02	1 1
CIVIL-1	2003	Engineering Geology Report	10/26/2002							See 2008	1 1
CIVIL-1	2004	Engineering Geology Report	10/26/2002							See 2008	1 1
CIVIL-1	2004	Phase 2 - Drainage and Grading: 4 Drawings	2/28/03				3/14/03		RS HK		
		Drwg: C-071-R0 Rough Grading Plan									
		Drwg: C-072-R0 Drainage Plan									
		Drwg: C-073-R0 Foundation Schedule									
		Drwg: C-074-R0 Crane Staging Area Plan									
CIVIL-1	2005	Technical Specification for Earthwork								C-11/15/02	1 1
CIVIL-1	00020	Subsurface Investigation & Geology Report: CY-0000-001 Rev H								A-4/4/02	
CIVIL-1	00020	0-CG-0100-00002 Rev. 1,									
CIVIL-1	00020	0-CG-0090-00006 Rev. 0,									
CIVIL-1	00020	0-C2-0000-00001 Rev. 1,									
GEO-2	2008	Engineering Geology Report - Application for Grading Permit								C-1/17/02	1 1

WET CALF DOCUMENT SUBMITTAL RECORD
CAPINE B&R AND CBO

WILLDAN CBO PROJECT NO. 13254

Condition of Certification	Pack. No.	CBO No.	Package Title	Review /Approval Dates				Comments or Action Required	Documents			
				Issued Due Date	To Check	From Check	Resp' Date	Check By	Status	Rc'd	Rsp'd	
GEO-2	2008	000007	Subsurface Investigation & Foundation Report- Responses to Arroyo's comments	2/15/2002 3/8/2002				Verbal Evans	See 00012			
GEO-2	2008	000012	Subsurface Investigation and Foundation Report- Revisions	3/6/2002 3/22/02					Response Forecast 3/22/02 Response Forecast 3/22/02	1		
CIVIL-1	2009	000028	Sediment & Erosion control - C050 South Laydown yard	4/30/2002				A-3/29/02	Response Received 3/29/02	1	1	
CIVIL-1	2009	000028	Sediment & Erosion Control Plan Rev 0	5/21/2002					Disposition dated 10/14/02 Response Forecast OEC			
CIVIL-1	2009	000048	C060 Sedimentation & Erosion Notes & Details Rev 0									
CIVIL-1	2010	000029	C061 Sedimentation&Erosion Details Rev.0									
CIVIL-1	2011	000054	Sediment & Erosion Control Burns & Roe response to comments	7/3/2002 7/24/2002				A-9/26/02	Disposition dated 10/14/02	1	1	
CIVIL-4	3052	000126	Burns & Roe Response to comments on Design of Concrete Filled Pipe Piles	5/6/2002 5/28/2002				A-5/8/02	Approved with 3014	1	1	
CIVIL-4	2011	000054	Site Observation Report: Dated 7/25/02	07/26/02 No rsp rq'd								
CIVIL-4	3052	000126	Site Observation Report:	01/06/2003 No rsp rq'd	01/10/03		01/17/02	HK-DW	resubmitted			
CIVIL-4	3052	000136	Marty Ballod final site visit. Three page document	01/27/2003 No rsp rq'd	2/4/2003			HK-RS	Comments from HK faxed to engineer. Report to be discussed at meeting with SG&SM Resident engineer transfer.	1	1	
CIVIL-1	2012	00004	Site Observation Report: Marty Ballod final site visit. Three page document									
CIVIL-1	2012	00069	Retaining Wall as built drawings	2/6/2002								
CIVIL-1	2012	00069	0-CG-0030-0006 Rev 2	9/13/2002 10/7/2002					Low Priority per JF on 10/9/02 Replaces FCR 0002	1		
CIVIL-1	3022	00037	Roadway Drawings	6/13/2002 6/27/2002						2		
CIVIL-1	3022	00056	C040 Road Geometry Plan Rev. 0									
CIVIL-1	3022	00062	C043 Typical Road Cross Section Rev. 0									
CIVIL-1	3022	00062	C044 All-Terrain Vehicle Access Partial Plan Rev.0									
CIVIL-1	3022	00062	Roadway Drawings - Burns & Roe Response to Willdan Comments of 7/1/02	08/02/02 08/22/02					C-10/9/02	Tech Specs Section (Earthwork) should be referred to for all compaction requirements	1	1
CIVIL-1	3022	00113	Roadway Drawings	08/21/02 09/12/02					A-10/9/02			
CIVIL-1	3022	00118	C040 Road Geometry Plan Rev. 2	12/6/2002						BB to review correspondence	2	2
CIVIL-1	3022	000118	C043 Typical Road Cross Sections Rev. 2									
CIVIL-1	3022	000118	C044 All Terrain Vehicle Access, Rev 2									
CIVIL-1	3022	000118	Roadway:									
CIVIL-1	3022	000118	Dwg: C040R3									
CIVIL-1	3022	000118	Dwg: C045R3									
CIVIL-1	3022	000118	Roadway:									
CIVIL-1	3022	000118	Letter: Response to CBO Comments: Roadway crosssection									
CIVIL-1	3022	000118	Dwg: C043 R3									
CIVIL-1	3022	000118	From Check									
CIVIL-1	3022	000118	01/28/03									
CIVIL-1	3022	000118	HK									
CIVIL-1	3022	000118	Approved Unstamped									

NETCAGE DOCUMENT SUBMITTAL RECORD
ALPNEBER AND CEO

WILLDAN CBO PROJECT NO. 13254

Cond.	Pack. No.	CBO No.	Package Title	Review/Approval Dates					Comments - Action Required		Submitted Documents	Response
				Issued Due	To Checker	From Checker	Response	Plan Check	Status			
STRUC-1	00005		CTG & STG Foundation Piling Drawings S110 Composite Pile Plan Rev A S111 Pile Sections and Details S200 CTG Pedestal Pile Location Plan S240 STG Pedestal Pile Location Plan	2/6/2002 2/27/2002	3/21/2002	3/29/2002			A-3/29/02			
STRUC-1	00006		Spec's for concrete curing, forming & Grout 03100, 03390 & 03600 Rev. A	2/15/2002 3/8/2002		3/15/2002	See 00017		3/15/2002			4
STRUC-1	00011		CTG, STG & HRSG File Calculations	2/28/2002 3/21/2002	3/21/2002	3/29/2002			A-3/29/02			3
STRUC-1	00013		Overdue Response Notification CBO 00005, 00006, 00007	3/11/2002					Respo to 00005,0000 6, 00007			3
STRUC-1	3001		HRSG Foundation and Lateral calculations	8/9/2001						C-3/28-01		
STRUC-1	3001		HRSG Structural Calculations	11/11/2002						C-11/7/02		
STRUC-1	3001		HRSG - Frame corner connections, shear blocks, base plates and casing stiffeners							C-1/14/02		
STRUC-1	3002	00003	Piling Specs (test piles), 02472, Concrete Filled Pipe Piles, Rev.C 02473 Pile Test Program Rev 0 03200 Concrete Reinforcement Rev 0 03300 Cast-In-Place Concrete Rev. 0 S108 Pile Load Test Plan Rev. 0.	1/31/2002		3/12/2002	See 00015			C-3/11/02		
STRUC-1	3002	00015	Piling Specs (test piles) 02472, Concrete Filled Pipe Piles, Rev.C 02473 Pile Test Program Rev A 03200 Concrete Reinforcement Rev A 03300 Casting-In-Place Concrete Rev. A S108 Pile Load Test Plan Rev. D. S109 Test File Sections & Details Rev. D	3/14/2002 3/21/2002	3/21/2002	3/29/2002				A-3/29/02		
STRUC-1	3002	00089	Water Pipe Specification 03300 Dwg. For Circ. Water Pipe Support Frame	10/29/2002 11/19/2002							6	6
STRUC-1	3002	000153	Piling Specs: 1 Specification Spec# 02472-R4 Concrete Filled Pipe Piles	3/11/03 3/24/03						BB HK		1
STRUC-1	3004		Report on Seismic Design Motions							3/14/2002		1
STRUC-1	3006		Concrete Specs : 3 Documents Concrete formwork Curing & Grout Spec 03100, Grout, Spec 03600 Rev.A.	1/31/2002						A-3/26/2002		1
STRUC-1	3006	00017	Spec's for concrete curing, forming & Grout 03100, 03390 & 03600 Rev. A	3/20/2002 4/10/2002						A-3/26/02		3
STRUC-1	3007		Design Report for W501F Exhaust System Diffuser							A-4/24/02		3
STRUC-1	3009	00008	HRSG Files: File Location Plan S300	2/20/2002 3/13/2002	3/21/2002	3/29/2002			A-5/15/02		1	1

MEGAFILE DOCUMENT SUBMISSION RECORD
CALIFORNIA STATE AND CEO

WILLDAN CBO PROJECT NO. 13254

Cond.	Pack. No.	CBO No.	Package Title	Review /Approval Dates				Comments - Action Required		Submitted	Response	
				Issued	Due	To Checker	From Response	Plan Check	Status			
STRUC-1	3010	00014	Gas Turbine documentation SWPC-CM-008 Enclosure "B" Side Platform Analysis SWPC-CM-009 Generator End Exterior Platform and Stair SWPC-CM-010 Exhaust End Exterior Platform and Stair SWPC-CM-011 Exhaust End Interior Platform and Stair 17-001-HR Sheets 1-7 R	3/13/2002 4/3/2002	4/4/2002		See 0031		C-4/3/02			
STRUC-1	3010	00031	Gas Turbine Document - Calculations and other documentation and Siemens Westinghouse response to Willdan's 4/3 Comments Dwg 17-001-HR.R1	5/17/2002					A-5/31/02			
STRUC-1	3010	00071	Siemens Westinghouse; Dwg 17-001-HR.R2 General Arrangement 5011FD Inlet Silencer System	9/18/2002 10/10/2002								
STRUC-1	3011	00016	Specs 01410 Rev. B -Testing Laboratory Services	3/18/2002 4/6/2002					A-4/8/02			
STRUC-1	3012	00018	Civil Structural Design Criteria	3/20/2002 4/10/2002				as CBO 00026	N-4/18/02			
STRUC-1	3012	00026	Civil/Structural Design Criteria - fixed head moment values for each pile.	4/26/2002 5/17/2002					C-5/15/02			
STRUC-1	3012	00018	Civil/Structural Design Criteria					See 00018 & 00026	A-5/15/02			
STRUC-1	3012	00082	Civil/Structural Design Criteria Rev. 1	10/8/2002 10/24/2002					A-11/7/02			
STRUC-1	3013	00019	Gen. Notes & Typical Detail Drawings S101, S680, S685, S690, S980, S981, S984, S985, S988, S989, S981, S983 & S987 Rev.0	4/29/2002 4/23/2002							1	1
STRUC-1	3013	00027	Gen. Notes & Typical Detail Drawings S101, S680, S685, S690, S980, S981, S984, S985, S988, S989, S991, S993 & S997 Rev.A	4/29/2002 5/25/2002					A-4/30/02			
STRUC-1	3014	00022	CTG, STG, HRSG Piles Calculations Concrete Filled Pipe Piles: 02484-001-006-001 Rev. O Contribut Turb Found Unit 1, 02484-001-006-004 Rev. O Steam Turb Fed Found, 02484-001-006-005 Rev. O Mat Foundation for HRSG and Slack Unit 1, 02484-001-001 Rev. O Compos	4/4/2002 4/25/2002					A-4/30/02			
STRUC-1	3014	00082	Composite Pile Plan: Drawing S110-R1	10/3/2002 10/24/2002						A-11/7/02		
STRUC-1	3014	000135	Composite Pile Plan: Drawing S110-R2 Pile Section Data Dwg S111-R1	01/27/03 02/27/03		To Checker 1/29/03				GJB HK	Approved Unstamped	
STRUC-1	3015	00023	HRSG & Slack foundation Mat Calc 02484-001-006-007 - Unit 2 Foundation Drawings: S305 HRSG Plan Unit #1 Rev. 0 S306 HRSG Plan Unit #2 Rev. 0 S307 HRSG Reinforcing Plan Unit #1 Rev 0 S308 HRSG Reinforcing Plan Unit #2 Rev 0 S310 HRSG Section & Details Unit	4/12/2002 5/3/2002								

NET-CALC'D DOCUMENT SUBMITTAL RECORD
CAPNEB & RAND CBO

WILLDAN CBO PROJECT NO. 13254

Cond.	Pack. No.	CBO No.	Package Title	Review / Approval Dates					Comments - Action Required		Submitted	Response	Documents	
				Issued Due	To Checker	From Checker	Response	Plan Check	Status					
STRUC-1	3016	00021	200 Gal. Reservoir Hydraulic Power Unit/Seismic Calc.	4/22/2002 4/23/2002				A-5/10/02				1	1	
STRUC-1	3017	00024	CTG Foundation: Drawings & Calcs - CTG Foundations Calc 02484-001-06-004 CTG Units 1&2 Found. Rev.0 S205 CTG Units 1 &2 Rev 0 S206 CTG Units 1 &2 Rev 0 S208 CTG Units 1 &2 Rev 0 S210 CTG Units 1&2 Rev 0	4/16/2002 5/7/2002	5/31/2002			A-5/31/02		Approved with 2010 Approved Disposition dated 10/22/02				
STRUC-1	3017	00073	CTG: Revisions and Resubmittal with the new Pile capacities - Calculations for CTG foundations Calculation 02484-001-06-004Rev 1 Dated 9/13	9/19/2002 10/3/2002				JL	A-10/22/02	BB to research correspondence - Done Confirmed Pile Design Approved 4/09/03		1	1	
STRUC-1	3017	00095	CTG Foundation S205 Combustion Turbine Generator Units 1 & 2 Foundation Plan, Rev. 1 dated 10/29/02	11/15/2002 11/26/2002				hold					5	5
STRUC-1	3018	00030	Pile Testing Revised doc. - ECN 001	5/7/2002			see 3037	A-5/15/02		Superseded by 3037			4	4
STRUC-1	3018	00032	Doc. Review by Lowmyer Associate - ECN 001	5/20/2002			see 3037	NA		Superseded by 3037			1	NA
STRUC-1	3018	00040	Pile Testing Revised documents ECR 003 Spec 02472 Concrete-filled pipe piles Rev.1 S108, Pile Load Test Plan Rev 2 S109, Test Pile Sections and Details, Rev 2	6/20/2002 6/25/2002			see 3037			Superseded by 3037			4	
STRUC-1	3018	00044	Pile Test Program: Revised Documents - Drwg S108, Pile Load Test Plan, Rev.3	6/27/2002 7/19/2002			see 3037	7/23/2002		Superseded by 3037			2	
STRUC-1	3018	00059	Pile Test Program: (ECR No. 004) Revisions to pile test program base on the test results obtained to date.	8/6/2002 8/27/2002			see 3037	A-9/26/02		Superseded by 3037			1	
STRUC-1	3019	00033	01410. Testing Laboratory Services Rev 0 05120, Structural Steel, Rev. 0 13121: Pre-Engineered Buildings, Rev 0	5/24/2002 6/14/2002				A-6/14/02					3	3
STRUC-1	3020	00034	STG Platform Piles: Drawings and Calculations 02484-001-06-028 STG Foundation Rev. 0 S120 STG Pile Plan, Rev. 0				see 0066 10/7/02	JL	6/24/2002	Approved but it was resubmitted as 3028			3	
STRUC-1	3020	00035	STG Platform Calcs	Valid			JL	Void					2	
STRUC-1	3020	00066	STG Platform Calcs 0284-001-06-029 Rev 0 S701, S705, S706, S750, S751, S752, S765, S766, S775, S776, S800, S805, S810, S830 Rev. 0	8/30/2002 9/23/2002			JL	10/8/02 will resubmit		10/4 to City of Industry			15	
STRUC-1	3020	00087	STG Platform Drawings: S700 Rev. 0 dated 10/21/02, S701, S705, S706 Rev. 1, S707, S708 Rev. 0, S750, S751, S752, S765, S766, S775, S800, S805, S810 Rev. 1, S811, S812, S813 Rev. 0, S830, Rev. 1, S831, S832, S835,	10/28/2002 11/18/2002	to Checker	from Check	Approval To Eng 01/23/03	JL	Approved Unstamped	Includes Calcs for Circ-water pipe supt drvg in 3041-00090 Response from checker was misplaced for a while. Engineer Inquiry 1/2/103			23	

NETCAED DOCUMENT SUBMISSION RECORD
OCEANEER & AND CBO

WILLDAN CBO PROJECT NO. 13254

Cond.	Pack. No.	CBO No.	Package Title	Review /Approval Dates				Comments - Action Required		Submitted	Response	Documents
				Issued Due	To Checker	From Checker	Plan Response	Plan Check	Status			
STRUC-1	3020	000163	STG Platform: 28 Drawings S700 - R1 Structural Steel Drawing List S701 - R2 Framing Plan S705 - R2 Framing Plan S706 - R2 Framing Plan S707 - R1 Mezzanine S708 - R1 Mezzanine *S709 - R0* Checked Plate S715 - R2 Pedestal Access Platform S750 - R2 Elevations along Column line S751 - R2 Elevations along Column line S752 - R2 Elevations along Column line S765 - R2 Girder Elevations S766 - R2 Girder Elevations *S770 - R0* Removable Panel Details *S771 - R0* Removable Panel Details S775 - R2 Elevations along Column line S776 - R2 Elevations along Column line S805 - R2 Base Plate Details S810 - R2 Steel Sections S811 - R1 Steel Sections S812 - R1 Steel Sections S813 - R1 Steel Sections S830 - R2 Stair #1 S831 - R1 Stair #1 S832 - R1 Stair #3 S835 - R1 Stair #1 Section S836 - R1 Stair #2 Section S837 - R1 Stair #2 Section	4/22/03 5/06/03 04/29/03	GJ					JL	N-7/10/02	
STRUC-1	3021	00036	Siemens Westinghouse Documents - Design and Load Calculations for Gland Seal Steam Skid W501F Turbine Enclosure Structure-CT Pipe Rack Structure-Design and Load Arrangement and Foot Loads-Design	6/27/2002 7/10/2002					JL	N-7/10/02		
STRUC-1	3021	00049	Siemens Westinghouse Documents 000-000-125-742 Cables and Fogger Skid Anchorage 000-000-125-740 Found Loads and Anchoring/Steam Turbine Seismic Loads	7/9/2002					HK			
STRUC-1	3021	00093	Design Calculations for Vacuum Pump Skid for Main Steam Condenser - SC-26787-CBO	11/1/2002								
STRUC-1	3021	00106	Siemens Westinghouse Calculation Revisions 1.) CTG Pipe rack structure SWPC-CM-007 2.) Design & load calculations for ST tube oil module 43237-LOAD 3.) Design & load Calc for leakproof Steam Skid 43277-LOAD 4.)W501F Turbine Enclosure Structure DA 182 5.)Condenser	11/21/2002								
STRUC-1	3021	00108	Siemens Westinghouse Doc. Condition of Certification 1.) Steam Turbine Cross-over Pipe Calculations SWPC# 000-000-140-477	11/25/2002								

WILLDAN CBO PROJECT NO. 13254
CAPNEE&RAND CBO

Cond.	Pack. No.	CBO No.	Package Title	Review /Approval Dates				Comments - Action Required		Submitted Documents
				Issued Due	To Checker	From Checker	Plan Response	Plan Check	Status	
STRUC-1	3022	00037	Roadway: Moved to CIVIL Section	09/09/00 00/00/00						3 NA
STRUC-1	3022	00056	Roadway: Moved to CIVIL Section	08/02/02 08/22/02						1 1
STRUC-1	3022	00062	Roadway: Moved to CIVIL Section	08/21/02 09/12/02						3 3
STRUC-1	3022	00113	Roadway: Moved to CIVIL Section	12/6/2002 09/09/00						2 2
STRUC-1	3022	000118	Roadway: Moved to CIVIL Section	12/23/02 01/07/03						
STRUC-1	3023	00038	STG Platform Foundation: Drawings S120 Steam Turbine Pile Plan Rev. 1 S125 Steam Turbine Foundation Plan Rev. 0 S135 Steam Turbine Pile Cap Details Rev. 0 S190 Steam Turbine Section & Details Rev. 0 S191 Steam Turbine Section & Details Rev. 0 S192	06/19/02 07/11/02	7/23/2002	see 00061	7/23/2002	BB to research correspondence		6
STRUC-1	3023	00061	STG Platform Foundation: Response to CBO and Calcs 0248-001-06-028 Rev 2, Dwgs: S125 and S190 Rev. 1	8/15/2002 9/15/2002				BB to research correspondence		3
STRUC-1	3023	00065	STG Foundation : Calcs 024-001-06-030 Rev 0 Excitation Housing Access Stairs & Platform Dwg S720 Exciter Access Platforms Plan Section & Details Rev. 0	d- 9/20/2002		See 00038	GJ	BB to research correspondence		2
STRUC-1	3023	00088	STG Platform Foundation: Dwg: S120, S125 & S190 Rev/2 Dated 10/28/02, dwgs S135, S191 & S192 Rev/1 dated 10/28	10/28/2002 11/18/2002	To Checker 11/06/02		EM GJ	Calcs only to GJ on 11/6/02 Pile Plans approved		6
STRUC-1	3023	00096	STG Platform Foundation Plan, Rev. 1 dated 11/01/02	11/5/2002 11/26/2002	To Checker 11/06/02		EM GJ	Approved Unstamped		1
STRUC-1	3023	00103	STG Platform Foundation: Response by Burns and Roe, Revised Drawing S192/2	11/03/02 12/04/02	To Checker 01/15/03		GJ			1
STRUC-1	3023	000131	STG Platform Foundation: Response to CBO letter of 11/11/02 consisting of 2 Calculations 11 Drawings	01/17/03 02/07/03	To Checker 01/23/03		GJ			13
STRUC-1	3023	000133	STG Platform Structure: Response to CBO letter of 11/15/03: One revised drawing: S720R1 Access Platform	01/17/03 02/07/03	To Checker 01/29/03		GJ			
STRUC-1	3024	00039	Visual Screen Foundation: Design Loads - Calculations and Dwg SS-1A, Foundation Load Plan	6/20/2002 7/12/2002	7/23/2002	See 00068	N-7/23/02			2 NA
STRUC-1	3024	00058	Visual Screen: Detail Calculations and Dwg SS-1 to SS-9	8/2/2002 8/23/2002				Need comments back, more detail		10
STRUC-1	3024	00068	Visual Screen: Burns & Roe Response to Willdan-David Newman Foundation Load Plan dwg SS-1-A	09/06/02 09/27/02	To Check 10/29/02	From Check 10/30/02	GJ EM	Bart found approval comments 1/29/03 Unstamped		1 1

SEARCHED DOCUMENTS SUBMITTED RECORD
CALIFORNIA STATE BOARD OF EQUALIZATION

VII DAN CBO PROJECT NO 13351

WILLIAMS CBO PROJECT NO. 13254											
Cond.	Pack. No.	CBO No.	Package Title		Review /Approval Dates				Comments - Action Required		
			Issued	Due	To Checker	From Response	Plan Check	Status	Submitted	Documents Response	
STRUC-1	3024	000134	Visual Screen: 1 Calc, 10 Dwgs: Calculation GH1# 201044.03 SS-1, Rev 1 Foundation Plan SS-1A, Rev 1 Foundation Plate Details - Not Approved SS-2, Rev 1 Foundation Plate Detail PC-8C SS-3, Rev 1 Foundation Pile Cap Detail PC-8A & Piles Section SS-4, Rev 1 Foundation Pile Cap Detail PC-8A SS-5, Rev 1 Foundation Pile Cap Detail PC-8A SS-6, Rev 1 Foundation Pile Cap Detail PC-8B SS-7, Rev 1 Foundation Pile Cap Detail PC-8D SS-8, Rev 1 Foundation Pile Cap Detail PC-20A SS-9, Rev 1 Piers on Two HRSG Bases - Not Approved	01/21/03 02/11/03	1/29/2003 01/31/03	01/31/03	GJ	Partial Approval	Status: 14 th Pile Design Approved Basic Foundation Piers Approved Required: Base Plate Calculations (SS-2 Not Approved) Calculation off HRSG #2 Foundation (SS-9 Not Approved)	11	11
			Specifications 02740.3200 (Aggregate Base Coarse Asphalt, paving, concrete reinforcement)	6/24/2002 7/16/2002				A-7/23/02	Will resubmit 2 copies		2
			Pile Submittals-MORT 01-00-0002 Pile Driving Hammer MORT 01-00-0003-Pile Driving Crane Data Sheet MORT 01-00-0004-Pile Driving Analyzer Data Sheet MORT 01-00-0005-Ground Vibration Equipment Data MORT 01-00-0006-Noise Monitoring Plan MORT 01-00-0008-Pile L.	6/26/2002	To Check 10/04/02	JL		N-7/23/02	Rejected		2
			Cooling Tower calcs Rev. 0	6/27/2002 7/22/2002	7/23/2002						6
			Cooling Tower Foundation: Burns & Roe response to 00043 Calculations 02484-001-08 Rev 1 and drawings S350, S351, S352, S355, S356, S357 AND S363 Rev 1	8/12/2002 9/4/2002	10/10/2002	see CBO 00076	10/10/2002 superseded				1
			Cooling Tower: Dvgs & Calcs. Cooling tower Basin redesign for pile capacity Calcs 02484-001-08 Rev 2, S350-S351, S352, S353, S356, & S363 Rev 2 dated 9/24/02	10/9/2002				C-10/15/02	Conditionally approved by Don Wimberly Approved Disposition dated 10/22/02		1
			Cooling Tower: Piles in Pump Pit Area and Inlet Header Foundations Pump Pit Found Calcs 02484-001-06-01 Rev. 0 Ctr Water Pipe Support Calcs 02484-001-06-034 Rev. 0 Cooling Tower Pile Dwgs # S350R3, S351R3, S352R3	11/04/02 11/18/02	To Checker 11/08/02	To Engineer 11/13/02	EM GJ	Approved Unstamped	CT Piles (less pump pit area) were approved via BB e-mail on 11/13/02 with comments resulting in correspondence. Pump-Pit Files were Oked by GJ e-mail of 11/15/02 and via EM e-mail on 11/19/02. By email BB approved 11/25/02		5
			Cooling Tower Structure & Foundations S360, S361, S364, S365, S366, S367, S368 Rev 0 dated 11/01/02Calcs 02484-001-06-01 submitted in previous packet.	11/07/02 11/29/02	To Checker 11/13/02	To Engineer 11/25/02	EM GJ	Re-designed	Pump pit structure comments were significant. Pump area was re-designed and submitted on CBO #000117 on 12/23/02		8
			Cooling Tower Foundation: Drawings dwgs: S355 R3, S356 R3, S357 R3, S362 R3, S363 R3, S368 R1	1/21/2002 1/22/2003	To Checker 12/13/02	To Engineer 12/20/02	GJ	Not Approved	Comments need response from engineer		6
STRUC-1	3027	000115	Cooling Tower Pump Structure Dwgs & Calc. Calc: 02484.001-06-011 Draw: S361 R1, S364 R1, S365 R1, S366 R1, S367 R1, S368 R2	1/22/2002 01/15/03	To Checker 01/07/03	GJ					7

WILDAN CBO PROJECT NO. 13254
WILDAN CBO PROJECT NO. 13254
WILDAN CBO PROJECT NO. 13254

Cond.	Pack. No.	CBO No.	Package Title	Review /Approval Dates				Comments - Action Required		Submitted Documents	Response
				Issued	Due	To Checker	From Checker	Response	Plan Check		
STRUC-1	3027	000125	Cooling Tower Foundation; Drawings, Response to Comments dwgs: S355 R4, S356 R4, S357 R4, S362 R1, S363R4	01/03/02 01/23/03	01/09/03 01/21/03	To Checker 01/09/03	From Checker 01/09/03	Approved 01/09/03	GJ Approved Unstamped		5 0
STRUC-1	3027	000127	Cooling Tower Pump Structure: Supplemental Drawing S860R0 Access Stair	01/07/03 01/28/03	01/09/03 01/28/03	To Checker 01/09/03					
STRUC-1	3028	000045	STG Pedestal: Drawings/Cals calc# 02484-001-06-005R0 Drawing: S245R0, S246R0, S247R0, S250R0, S256R0, S260R0, S285R0, S286R0, S267R0, S268R0, S270R0, S271R0, S272R0, S273R0, S275R0, S276R0	6/27/2002 7/22/2002	7/23/2002	Supersedes 3020-0003				N-7/23/02	18 NA
STRUC-1	3028	000981	STG Pedestal Foundations Piling: Calculations and Drawings	10/03/02							A-10/28/02
STRUC-1	3028	000986	STG Pedestal Access Platform: Calc No. 02484-001-06-033 STG Pedestal Access Platform S715, Rev 0 dated 11/01/02	10/16/02							
STRUC-1	3028	000145	STG Pedestal: 1 Drawing, 1 Letter Drawing & Calculation Drawing S730, Circ. Water Pipe Support Frame	11/07/02 03/07/03	11/25/02 12/19/03	To Checker 03/07/03	Fro Check 12/19/03	To Engineer 11/15/03	GJ Not Approved	Significant comments on drawing S715 and one Calculation comment precludes approval at this time.	3
STRUC-1	3028	000152	STG Pedestal: 1 Drawing, 1 Letter Drawing & Calculation Drawing S730, Circ. Water Pipe Support Frame	03/12/03 03/24/03							2
STRUC-1	3028	00154	STG Pedestal: 11 Drawings: S245-R1 STG Pedestal Foundation Plan S246-R2 STG Pedestal Foundation Sections S247-R1 STG Pedestal Misc. Sections S250-R1 STG Pedestal Operating Floor Plan S255-R1 STG Pedestal Operating Floor Imbedment Plan S265-R1 STG Pedestal Concrete Section S269-R1 STG Pedestal Concrete Sections S270-R1 STG Pedestal Concrete Sections S271-R1 STG Pedestal Concrete Sections S275-R2 STG Pedestal Imbedment Sections S276-R1 STG Pedestal Imbedment Sections	3/21/03 4/04/03	04/10/03				GJ		11 0
STRUC-1	3029	00047	CTG: S206ctg Units 1& 2 Rev 1	7/22/2002 7/25/2002						C-9/30/02	Disposition dated 10/9/02
STRUC-1	3029	000120	CTG Containment Trench: Draw/Calcs calc# 02484-001-06-041 draw: S225 R0, S226 R0, S227 R0	12/27/2002 1/20/2003	01/07/03 1/15/03	From Check 1/15/03			GJ	Verbal	BB to review & prepare comment . Minor Comment expansion joint
STRUC-1	3030	00052	Drawing S108, Rev 4	7/23/2002 8/11/2002						A-9/30/02	
STRUC-1	3031	00053	Precast Concrete Electrical Manholes , Rev 0 Spec. 02885 02315 Earthwork Rev 0	7/26/2002 8/16/2002						C-10/9/02	
STRUC-1	3031	00079	Earthwork Spec 02315 Rev 1 dated 9/25 Chain Link Fences and Gates Spec 02821, Rev.0 dated 9/26 Specification 02315, Earthwork, Rev. 2	09/30/02 10/17/02							
STRUC-1	3031	000148	STG Pedestal: Revised Plan for STG Pedestal-Burns and Roe	08/01/02 08/22/02						RS	Supersedes 3028 & 3020
STRUC-1	3032	00055	Response to Wildan of 7/24/02							A-10/28/02	

WILDCAT DOCUMENT SUBMITTAL RECORD									
CAT, NEBR AND CBO									
WILLDAN CBO PROJECT NO. 13254				Review /Approval Dates					
Package Title				Comments - Action Required					
Cond.	Pack. No.	CBO No.		Issued	Due	To Checker	From Checker	Response	Plan Check
STRUC-1	3034	00063	BOP Electrical / Control Building: Draw/Calcs. calc# 0284-001-06-032 drawings: A100R0, A105R0, A131R0, A133R0, A140R0, A141R0, A150R0, A156R0	08/22/02 09/13/02	1/28/2003	02/03/03	verbal CBO meeting 2/04	Approved Unstamped	History: Not listed here till 1/12/02. Sent to EM on 10/15/02 Re-sent as noted. EM approved over phone
STRUC-1	3035	00085	Siemens STG Enclosure	10/15/02 11/04/02					
STRUC-1	3036	00070	CTG Inlet Air Filter & Silence foundation: Calcs 02484-001-06-027 Rev 0 Drawing S220 Rev 0	09/17/02 10/01/02					
STRUC-1	3036	000075	CTG: Drawings & calculations sound Barrier CTG Inlet Calcs 02484-001-06-031 Rev. 0 dated 9/19 Dwg. S768 Units 1&2 Rev0 and S769 Units 1&2 Rev0	09/25/02 10/18/02					
	3036	000129	CTG: Air Filter Housing Structural Steel Calculations and drawings, Siemens / Carlton Eng / Pneumafit Mfg	01/13/03 02/03/03	To Checker	pending			Package needs to be reviewed by Structural Eng Secondary to Main Concrete Foundations
STRUC-1	3036	000129	CTG Equipment: Starter Package 1-Calculation 9-Drawings	04/07/03 04/25/03					
STRUC-1	3037	00072	Pile Load Testing: Lowney's conclusions and Recommendations and the following documents: Pile driving records (for all 27 piles)-PDA results (for all 27 piles)-CAPWAP results (for 24 blows on 14 separate piles)-Pile load test results-Specs 02472 Rev. 1.	9/19/2002			Supercedes 3018	A-10/22/02	replaces all of 3018 per transmittal records this submittal is part of 3017 CBO 00073
STRUC-1	3038	00077	PDC's: Moved to ELECT Section	09/25/02 10/09/02					
STRUC-1	3039	00078	Boiler Feedwater Pump Foundation: Calc 02484-001-06-016 Drawing S320 Rev 0. Section and Details S321 Rev. 0	9/27/2002			E. Moran	A-10/31/02	
STRUC-1	3040	00082	Drawing S110, Rev 1 & Design Criteria Rev. 1	10/03/02 10/24/02					
STRUC-1	3041	00090	Circ Water Pipe Support : Dwg S730, Rev. 0	10/30/02 11/21/02	To Check 11/06/02	From Check 11/19/02	To Engineer 01/23/03	JL Not Approved	Calc from 3020-00087 STG Platform Major Comment. Watch this one.
STRUC-1	3042	00092	Pipe Rack Structure: Calcs 02484-001-06-022, Pipe Rack Steel Design, Rev. 0 DwgS S800, S901, S902, S903, S904, S905, S906, S930, S931, S932, S940, S941, S942, S943, S944, S945, S950, S951, S952, S953, S954, S955, S956, S958, S959, S960, S961, S962, S963, S964, S965, S966, S967, S968, Rev 0 dated 10/10/02	10/31/02 11/22/02	To Checker 12/03/02	Fro Check 12/09/02	To Engineer 12/20/02	GU Not Approved	Major Scope: Significant number of comments need to be resolved
STRUC-1	3042	00111	Pipe Rack Foundation and Pilots: Drawings & Calculations Pipe Rack Foundation, Calc# 02484-001-06-023 RG, Draw#: S530R0, S540R0, S550R0, S551R0, S552R0, S553R0	11/29/2002 12/19/2002	To Checker 12/04/02	Fro Check 12/22/20	To Engineer 12/23/02	GJ-EM Not Approved	Eng. needs to get pile comment resolved. Remaining comments can be resolved later
STRUC-1	3042	000123	Pipe Rack Foundation and Pilots: Response to CBO comments, Calc# 02484-001-06-023 DwgS: S540 R1, S552 R1, S553 R1	12/31/02 01/12/03	To Checker 01/07/03	From Check 01/21/03	Record Approve	GU	BB to review & prepare comments. Minor comment: Add a note on dwg: 540

NETCA DOCUMENT SUBMITAL RECORD							
CLP-NEBRANDBO							
WILLDAN CBO PROJECT NO. 13254							
Cond.	Pack. No.	CBO No.	Package Title	Review /Approval Dates			Comments - Action Required
				Issued	Due	To Checker	From Checker
						Response	Plan Check
STRUC-1	3042	000132	Pipe Rack Foundation: New Steel Platforms Calculation 02484-001-06-044-R0, Pipe Rack-Misc. Steel Platform Design Drawing S933-R0, Pipe Rack Misc. Access Platform Framing Plans, Sections Drawing S934-R0, Pipe Rack Misc. Access Platform Framing Plans, Sections Drawing S934-R0, Pipe Rack Misc. Access Platform Framing Plans, Sections	01/17/02 02/08/03	01/23/03 01/23/03	To Checker To Checker	GJ
STRUC-1	3042	000140	Pipe Rack Steel Structure: 1 Calculation 29 Drawings Dwg#: S553R2, S900R1, S904R1, S901R1, S902R1, S903R1, S904R1, S905R1, S906R1, S931R1, S932R1, S940R1, S941R1, S942R1, S943R1, S944R1, S945R1, S950R1, S951R1, S952R1, S953R1, S954R1, S955R1, S956R1, S958R1, S959R1, S965R1, S966R1, S967R1 Calc#: 02484-001-06-22-R1	2/6/2003 2/28/2003	2/28/2003 2/28/2003	To Checker To Checker	GJ
STRUC-1	3042	000155	Draiwings for Pipe Rack Foundations Drawing S540-R2, Pipe Rack Foundation plan Drawing S550-R1, Pile Cap Details Drawing S551-R1, Pile Cap Details Drawing S552-R2, Pipe Rack Foundation Sections and Detail	03/21/03 04/04/03	04/04/03 04/04/03	To Checker To Checker	GJ
STRUC-1	3044	000997	STG Main Step-up Transformer : Calcs 02484-001-06-308 Unit #3 dated 11/01/02- Dwg# S567, S570, S577, S578 dated 11/01/02	11/07/02 11/27/02	11/27/02 12/19/02	To Checker To Checker	GJ-EM
STRUC-1	3044	001110	STG Main Step-up Transformer: Drawings / Calcs Calc# 02484-001-06-008 R1, Draw#: S577R1, S578 R1	11/27/02 12/05/02	12/05/02 12/11/02	To Engineer From Check	Not Approved
STRUC-1	3044	000128	STG Main Step-up Transformer : Response to CBO Comments Drawings / Calcs Calc# 02484-001-06-008 R2, Draw#: S577R2, S578 R2	01/08/03 01/14/03	01/14/03 01/16/03	Approved From Check	Comments need response from engineer
STRUC-1	3045	000100	Piles: Concrete-Filled Pipe Piles: Specs 02472-R2	11/08/02 11/29/02			
STRUC-1	3045	000137	Piles: Concrete-Filled Pipe Piles: Specs 02472-R3	01/28/03 02/18/03			
STRUC-1	3046	000102	HRSG: Drawing & Calculations for HRSG Unit 1- Calcs 02481-001-06-006 Mat Foundation for HRSG & Stack for Unit 1 Rev. 1 dated 11/07/02 - S300 HRSG Pile Location Plan, Unit 1 Rav1 Dated 11/07/02	11/07/02 11/29/02	11/19/02 11/25/20	To Checker From Check	GJ-EM
STRUC-1	3046	000112	HRSG Foundation Drawings - S305, S307, S310, S313	12/03/02 12/24/02	12/05/02 12/20/20	To Engineer From Check	Not Approved
STRUC-1	3046	000124	HRSG: Response to CBO Comments and Revised Foundation Plans Dwg#: S305 R2, S310 R2	12/31/02 01/22/03	01/07/03 01/24/03	Approved From Check	Approved Unstamped

DETAINED DOCUMENT SUBMITTAL RECORD
CAPONE & RANDBO

WILDAN CBO PROJECT NO. 13284

Cond.	Pack. No.	CBO No.	Package Title	Review /Approval Dates				Comments - Action Required		Submitted	Response Documents
				Issued Due	To Checker	From Checker	Plan Check	Status			
STRUC-1	3046	000142	HRSG: Foundation & Drawings S305-R3 Foundation Plan Unit 1 S306-R1 Foundation Plan Unit 2 S307-R2 Reinforcement Plan Unit 1 S308-R1 Reinforcement Plan Unit 2 S310-R3 Section Details Units 1&2 S311-R1 Section Details Units 1&2 S313-R2 Anchor Details Units 1&2 S315-R0 Equip Foundations Units 1&2	2/10/03 2/21/03	2/20/2003						
STRUC-1	3047	00109	CTG Main Step-up: Drawings & Calculations for Unit #1 & #2 CTG Main Step-up and Auxiliary Transformer Foundation Calc.# 02484-001-06-036 Draw# S571R0, S572R0, S574R0, S576R0, S579R0								
STRUC-1	3048	00114	Condensate Pump Foundation: Drawing and Calculation, calc# 02484-001-06-038 draw: S290R0	1/20/02 1/21/02	To Checker From Check 1/09/03 1/15/03		GJ		BB to review & prepare comments. Minor comment: Add a note on dwg: 290 spec 1/2" anchor		2 0
STRUC-1	3049	00116	CTG Foundation Units 1&2 Drawing S206 R2	1/21/2002	To Checker From Check 12/18/02		GJ		Bart to Research Correspondence This goes with Sub# 3017		1 0
STRUC-1	3050	000119	Manholes & Covers Specification 02607	1/23/02 01/15/03							
STRUC-1	3051	000122	Station Service Transformer Foundations Dwg/Cals calc# 02484-001-06-037 dwgs: S370 R1, S579 R1	1/23/02 01/12/03	To Checker From Check 01/07/03 01/15/03		GJ		BB needs to review and prepare comments. Distance between Trans and well verify.		1 0
STRUC-1	3052	none	Admin Building: Bechtel 3 Drawings: Dwg A1-81-10, Dwg A2-81-90, Dwg A5-81-10	1/10/01							
STRUC-1	3053	000144	Excitation Transformer Foundation: 1 Drawing 1 Calc: Dwg: S585-R0 Excitation Transformer Foundation Calculation: 02484-001-06-043-R0	02/19/03	3/7/2003		GJ				
STRUC-1	3054	000158	Circuit Breaker (CB) Platform for CTGs: 2 Calcs, 3 Dwg: Calculation: Foundation 02484-001-06-025-R0 Calculation: Steel Platform 02484-001-60-048-R0 Dwg: S801-R0 CTG Units 1&2 CB Platform Foundation Dwg: S880-R0 CTG Unit #1 CB Platform Structure Dwg: S881-R0 CTG Unit #2 CB Platform Structure	3/26/03 4/09/03	04/10/03		GJ				5 0
STRUC-1	3055	000162	Water Tanks: Fire-Water & Demineralized: 1 Calcs, 2 Dwg: Calculation: Tank Foundation 02484-001-06-012-R0 Dwg: S519-R0 Water Tank Pile Layout Dwg: S111-R2 Pile Sect. Details Revised for Tank Piles Water Tanks: 1 Calcs, 2 Dwg: Calculation: # 02484-001-06-012-R1 Dwg: S519-R1 Demineralized & Firewater Tanks Dwg: S110-R3 Composite Pile Plan	4/17/03 4/25/03	04/22/03	04/24/03	GJ	Not Approved	High Priority Review of piles needed Approved based on verbal clarifications		3 0
STRUC-1	3055	000167		5/02/03 5/10/03	05/06/03						

LEGAL DOCUMENTS SUBMITTED RECORD
CALIFORNIA DEPT OF STATE

WILLBAN CBO PROJECT NO. 13254

TECHNICAL DOCUMENT SUBMISSIONAL REPORT
CABINET EXERCISE

WILLDAN CBO PROJECT NO. 13254

Cond.	Pack. No.	CBO No.	Package Title	Review/Approval Dates				Comments	Submitted	Response	Documents
				Issued / Due	To Checker	From Check	Resubmit				
MECH-1	4002	000080	Piping System P&IDs: MT-P-2015-AST-001 Rev.1, Ammonia Storage MT-P-2079-SSW-001 REV. 1, MT-P-2080-SWS-001 REV.2, MT-P-2081-SWS-002 REV.2, MT-P-2052-FWS-001 REV 2, Fire Water MT-P-2053-FWS-002 REV 2, Fire Water MT-P-2003-GEN-003 REV.0, MT-P-2004-GEN-004 REV.0, MT-P-2005-GEN-005 RE			10/1/2002 10/22/2002					
MECH-1	4002	000086	Waste Water Collection P&ID: 4 Drawings: MT-P-2084-WWC-001- 1 of 4, MT-P-2085-WWC-002- 2 of 4 MT-P-2086-WWC-003- 3 of 4 MT-P-2087-WWC-004- 4 of 4 Rev 1 dated 10/17/02 Circulation Water System: 1 Drawing MT-P-2042-CWS-00- 1 of 3 Rev. 2 Fuel Gas P&ID: 3 Drawings MT-P-2046-FGS-001- 1 of 6, MT-P-2047-FGS-002- 2 of 6 MT-P-2048-FGS-003- 3 of 6 Fire Protection Arrangement: 1 Drawing Dwg M203-R1			10/21/2002 11/11/2002					
MECH-1	4003	000091	Fire Protection: 1 Spec and 4 Drawing Specification - Fire Risk Evaluation-Rev B M201 General Arrangement Plan at Grade M203 Fire Protection Arrangement MT-P-2052-FWS-001-R2 Fire Water P&ID MT-P-2053-FWS-002 -R2 Fire Water P&ID		10/30/2002 11/21/2002			GC			
MECH-1	4003	000139	Fire Protection: 1 Drawing: General Arrangement Plan View M201-R2		01/30/03 02/20/03	02/03/03		HK	New		
MECH-1	4003	000166	Fire Protection 6 Drawing MT-P-2042-CWS-001 Circulating Water System MT-P-2043-CWS-002 Circulating Water System MT-P-2044-CWS-003 Circulating Water System MT-P-2052-FWS-001 Fire Water MT-P-2053-FWS-002 Fire Water		5/1/2003	05/07/03		GC			
MECH-1	4004	000105	Mechanical Design Criteria: Specification #		11/21/2002						
MECH-1	4004	000XXX	Drawings Requested By CBO		1/20/2003						
MECH-1	4011	xxxx	Burns & Roe NJ Review: 186 Drawings Various BREI Mechanical Drawings					HK			

186

186

Refer To Excel Spreadsheet "Audit NJ Brief Drwgs.xls" For detailed list of documents

In review of Fire Protection MTP-2052-FWS-001

1

0

WILL DAN CBO PROJECT NO. 13254																
Cond.	Pack. No.	CBO No.	Package Title	Review / Approval Dates				Comments	Submitted	Response						
				Issued / Due	To Checker	From Check	Resubmit									
MECH-1	4011	xxxx	Burns & Roe NJ Review: 10 Drawings Various BREI Vendor Mechanical Drawings					HK		Refer To Excel Spreadsheet "Audit NJ Vendor Drugs.xls" For detailed list of documents						
MECH-1	4011	xxxx	Burns & Roe NJ Review: 04 Calculations Various BREI Mechanical Calculations					HK		Refer To Excel Spreadsheet "Audit NJ Brei Drugs.xls" For detailed list of documents						
Status Code:										Total: 4						
A - Approved										Total: 225						
I - Accepted as for Information only										215						
N - Not approved, returned with comments.																
C - Approval Conditioned upon submittal of addit. Info or replacement																
R - Reversal of approval pending resolutions from outside agencies.																

WILLDAN CBO PROJECT NO. 13254

DOCUMENT SUBMISSION RECORD

Cond.	Pack.	CBO	Package Title	Review Dates	Comments	Documents
ELEC-1	5001	00046	Electrical Grounding: Drawings / Plans E200R0, E201R0, E202R0, E203R0, E204R0, E205R0, E206R0, E207R0, E208R0, E209R0, E210R0, E211R0, E212R0, E213R0, E214R0, E215R0, E216R0, E217R0, E218R0, E219R0, E220R0, E221R0, E232R0, E233R0	6/29/2002	Bob Snyder Approved Unstamped	BS to research correspondence
ELEC-1	5001	00050	Electrical Grounding: Drawings & Calculations E201, E203, E205, E207, E208, E209, E210, E212, E213, E215, E216, 2484-01-07-008 Rev. 1	7/18/2002 8/6/2002	Bob Snyder A-10/22/02	Conditionally approved but it was later determined that Drawing E-104 was needed
ELEC-1	5001	00067	Cable Sizing Calc's: Underground: 02484-01-07-011 R0 Above Ground: 02484-01-07-012 R0	8/30/2002 8/23/2002	ES ES	Second review reveals a few significant comments regarding fire protection and circuit breaker capacities
ELEC-2	5002	00057	Electrical One-Line Drawings E101, E102, E103, E105, E106, E107, E108, E110, E111, E113, E114, E120, E121, E122, E123, E124, E125 REV 0	8/22/2002 8/23/2002	ES C-10/17/02	Significant Number of comments sent to B&R via E-mail
ELEC-2	5002	00057	Electrical Single Line Drawings: Same Dacket as above E109, E110, E111, E113, E114, E120, E121, E122, E123, E124, E125-R0 (only these were commented on)	8/22/2002 8/23/2002	ES not approved	These drawings were obtained by CBO at plant around mid-November. Elias prepared some comments. Drawings are preliminary and not for release and not
ELEC-2	5002	00104	Electrical Single-Line Drawing: Draw. E-104,	xx xx	02/1/2003 02/1/2003	1 1
ELEC-2	5002	No Sub Number	Electrical Single-Line Drawings: E126B, E126A, E130B, E131B, E133A, E134A, E140A, E142B, E143A, E160R0, E161R0, E180A, E181A, E184A, E185A, E188A	xx/xx/xx 11/15/2002	ES ES	
ELEC-2	5002	000151	Electrical One-Line Drawings: E101-R1, Electrical Symbols Sheet 1 E102-R1, Electrical Symbols Sheet 2 E103-R2, Electrical Symbols Sheet 3 E104-R2, Key One Line Diagram E105-R1, Electrical Main One Line Diagram CTG #1 E106-R1, Electrical Main One Line Diagram CTG #2 E107-R1, Electrical Main One Line Diagram STG E108-R2, 4160V Switchgear Bus 001A & 001B E109-R2, 4160V Switchgear Bus 001A One Line Diagram E110-R2, 4160V Switchgear Bus 001B One Line Diagram E111-R2, 4160V Switchgear Bus 001B & STBY Gen	3/1/03 4/2/03		
ELEC-2	5002	000151	E113-R2, 4160V Cooling Tower MCC-011A E114-R2, 4160V Cooling Tower MCC-011B E120-R2, 480V Switchgear Bus 001A One Line Diagram E121-R2, 480V Switchgear Bus 001B One Line Diagram E122-R2, 480V Switchgear Bus 002A One Line Diagram E123-R2, 480V Switchgear Bus 002B One Line Diagram E126-R1, 480V Balances of Plant nec 1-30-ELA-MC-021A E130-R1, 480V HRSIG # MCC-1-01-ELA-MC-014A E131-R1, 480V HRSIG # MCC-1-02-ELA-MC-014B E132-R1, 480V Essential Svc's MCC-00-EGS-MC-001 E133-R1, 480V Water Treatment 1-00-ELA-MC-022A E134-R1, 480V Water Treatment 1-00-ELA-MC-022B	3/1/03 4/2/03		
ELEC-2	5002	000151	Electrical Drawing-Under ground conduits E354, Rev 0 dated 8/25/01 E360 E316 E319 E322 E323 E324, E326, Rev. 1, 6/28 E371- E376, E377, E378, E381, E382, E383, E384, E385, E386 Rev 0 dated 7/17	09/20/02 09/30/02 12/12/02 12/17/02	Response ES	Conditional Approval un stamped
ELEC-1	5003	000074	Major Scope Resulting a significant number of comments that need to be resolved by the engineer. Response by engineer makes possible to approve conditionally	09/20/02 09/30/02 12/12/02 12/17/02	55 55	

WILLDAN CBO PROJECT NO. 13254														
			Package Title			Review/Accomplishment Dates			Comments					
Cond.	Pack.	CBO	Electrical Design Criteria: SD-E-004-GEN-000 Legend, SD-E-004-GEN-001 Tray, SD-E-004-GEN-002 Duct Bank, SD-E-004-GEN-003 Notes			To Checker 01/20/03	12/27/02 01/07/02	ES	Conditional Approval unstamped	This submittal packet is a partial response to CBO Comments to Underground Conduits				
ELEC-1	5004	000121	Underground: Response to CBO comments of 12/17/02. including 4 Documents: 1) Manhole and Duct Spec# 16118... 2) Cable Schedule; 3) Raceway Report; 4) Cable Length Report			01/15/02 02/05/03	To Checker 01/30/03	ES	Approved Unstamped	Elias tied up with LECFF Start-up until 1/30/03				
ELEC-1	5003	000130	PLCs: 8 Drawings: Draws E860-R1 Layout E9-02-R1 CTG Unit 1, E9-03-R1 CTG Unit 2, E9-04-R1 HRSG Unit 1, E9-05-R1 HRSG Unit 2, E9-06-R1 Cooling Tower Unit 1, E9-07-R0 Water Treatment Area, E9-14-R0 Bus Layout.			09/25/02 10/09/02	02/11/03	ES	Review	Elias to review 2/11/03				
ELEC-1	3038	000077	Voltage Cables: Carts 02484-001-07-002 Load Flow and Voltage Drop, Rev. 0 dated 10/30/02 Carts 02484-001-07-003 short Circuit, Rev. 0 dated 10/29/02			11/8/02 11/29/02		ES	Review	Elias to review 2/11/03				
ELEC-1	5004	00099	Temporary Power: 1 Drawing Draw# E0.01 Single Line Diagram - Rosendin Electric			02/21/03	02/21/03	pending 3/6/2003	ES	not approved	ES to look over 1/31			
	5000	000000	Lighting Plans: 32 Drawings, 1 Calculation Calculation #248a-001-07-008, Lighting & Power Density Drawing E46, Panel Schedules CTG Unit #1 Drawing E47, Panel Schedules CTG Unit #2 Drawing E48, Panel Schedules CEMHRSG Unit #1 Drawing E49, Panel Schedules CEMHRSG Unit #2 Drawing E150, Panel Schedules Cooling Tower Drawing E152, Panel Schedules BOP Electrical/Control Drawing E600, Electrical Lighting Drawing Layout Drawing E601, Electrical Lighting Plant Roadway Lighting Drawing E602, Electrical Lighting STG BLD GND Sh1 Drawing E603, Electrical Lighting STG BLD GND Sh2 Drawing E604, Electrical Lighting STG BLD GND Sh3 Drawing E605, Electrical Lighting STG BLD MEZZ Sh1 Drawing E606, Electrical Lighting STG BLD MEZZ Sh2 Drawing E607, Electrical Lighting STG BLD MEZZ Sh3 Drawing E608, Electrical Lighting STG BLD Operating Sh1 Drawing E609, Electrical Lighting STG BLD Operating Sh2 Drawing E610, Electrical Lighting STG BLD Operating Sh3 Drawing E611, Electrical Lighting Cooling Tower Drawing E612, Electrical Lighting CTG Unit #1 Plan View Drawing E613, Electrical Lighting CTG Unit #2 Plan View Drawing E614, Electrical Lighting HRSG Unit #1 Plan View Drawing E615, Electrical Lighting HRSG Unit #1 East Elvat Drawing E616, Electrical Lighting HRSG Unit #1 West Elvat Drawing E617, Electrical Lighting HRSG Unit #2 Plan View Drawing E618, Electrical Lighting HRSG Unit #2 East Elvat Drawing E619, Electrical Lighting HRSG Unit #2 West Elvat Drawing E620, Electrical Lighting Pipe Rack & Walkways Drawing E651, Lighting Details & Fixture Schedule Drawing E652, Lighting Control Diagram PDC-1, 2, 5 Drawing E653, Lighting Control Diagram PDC-3 Drawing E654, Lighting Control Diagram PDC-4 Drawing E655, Lighting Control Diagram STG BLD Electrical room			3/3/03 3/4/03	ES	9 Comments to be sent back to Daters	2 0					
ELEC-1	5005	000147												
A - Approved	P - Approved upon sign-off by Engineer, Inspector or Geotech, or other Third Party indicated by CBO.													
I - Accepted as for information only	D - Discussion pending between CBO, Engineer, Geotech, Inspector or other party													
N - Not approved, returned with comments.	H - On hold by Mortenson/Capline													
C - Approval Conditioned upon submittal of addt. info. or replacement	R - Reversal of approval pending resolutions from outside agencies.													
			Total:			Total:								

ALL DOCUMENTS SUBMITTED FOR RECORD
AT THE CATFISH BAR AND CBO

WILLDAN CEO PROJECT NO. 1326:

Cond.	Pack. No.	CBO No.	Package Title	Review/Approval Data				Comments	Approved via email. Comments require further action	Documents
				Issued Due	To Checker	From Checker	Status			
STRUC-1	7001	Calpine Transmittal 00249	Switchyard Structure:1 Calc, 1 Drawing: Power Engineers Inc. Calculation# 150312-01 Drawing# C02-1 Rev B	02/10/03			GJ			2 0
TSE	7002	Calpine Transmittal 00274	Switchyard Plans:85 Drawings: C01 Foundation Plan EP02 Electrical Assembly Plan EP03-1 Electrical Elevations Sh 1 EP03-2 Electrical Elevations Sh 2 EP04 Fence & Grounding Plan EP05 Fence & Grounding Details EP10-1 Electrical Material List Sh. 1 of 2	7						
TSE	7002		EP2-1 Relay One-Line Diagram Sh 1 EP2-2 Relay One-Line Diagram Sh 2 EP3 Three-Line Diagram EP4 Three-Line Diagram Circuit Breaker 242 EP5 Three-Line Diagram Circuit Breaker 442 EP6 Three-Line Diagram Circuit Breaker 232 EP7 Three-Line Diagram Circuit Breaker 332 EP8 Three-Line Diagram Circuit Breaker 432 EP9 Three-Line Diagram Circuit Breaker 1 & 2	9						
TSE	7002		EP10 Station Service AC Panel Schematic E11 Station Services DC Panel Schematic E12 01-03-GSU-XF-301XFMR Differ Relay Schematic E13 Trmal Differ & CB 242 BKR Failure Relay Schematic E14 CB 442 Breaker Failure Relay Schematic E15 01-01-GSU-XF-101 XFMR Differ Relay Schematic E16 Trmal Differ & CB 232 BKR Failure Relay Schematic E17 CB 332 Breaker Failure Relay Schematic E18 01-02-GSU-XF-201 XFMR Differ Relay Schematic E19 Trmal Differ & CB 432 BKR Failure Relay Schematic E20-1 Annundator Win.layout & Engraving	10						
TSE	7002		E20-2 Annundator Schematic Sh 2	2						
TSE	7002		E20-3 Annundator Schematic Sh 3 E20-4 Annundator Schematic Sh 4 E20-5 Annundator Schematic Sh 5	3						
TSE	7002		EP1-1 Breaker 242 Trip Cir #1 Schematic EP1-2 Breaker 242 Trip Cir #2 Schematic EP1-3 Breaker 242 Close Cir Schematic EP1-4 Breaker 242 Alarm & AUX Schematic EP2-1 Breaker 442 Trip Cir #1 Schematic EP2-2 Breaker 442 Trip Cir #2 Schematic EP2-3 Breaker 442 Close Cir Schematic EP2-4 Breaker 442 Alarm & AUX Schematic EP2-5 Breaker 442 Motor, Heater & Receptacle Cir Sch EP3-1 Breaker 232 Trip Cir #1 Schematic	11						
TSE	7002		EP4-1 Breaker 332 Trip Cir #1 Schematic EP4-2 Breaker 332 Trip Cir #2 Schematic EP4-3 Breaker 332 Close Cir Schematic EP4-4 Breaker 332 Motor, Heater & AUX Schematic EP4-5 Breaker 432 Trip Cir #1 Schematic EP5-1 Breaker 432 Trip Cir #2 Schematic EP5-2 Breaker 432 Close Cir Schematic EP5-3 Breaker 432 Motor, Heater & AUX Schematic EP5-4 Breaker 432 Alarm & AUX Schematic EP5-5 Breaker 432 Motor, Heater & Receptacle Cir Sch	10						

